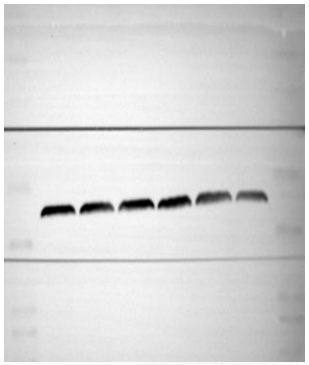
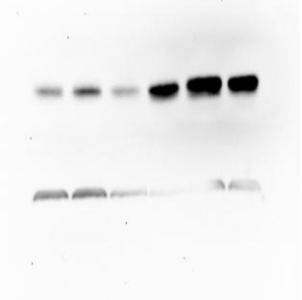
Figure 1A-1C

Kidney

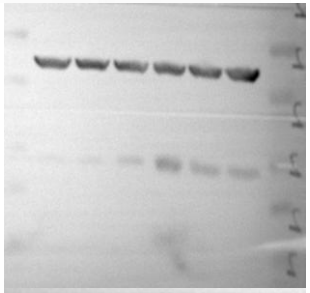


Actin



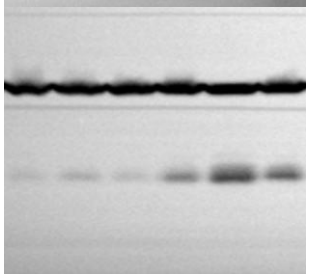
LSD1

Actin



Actin

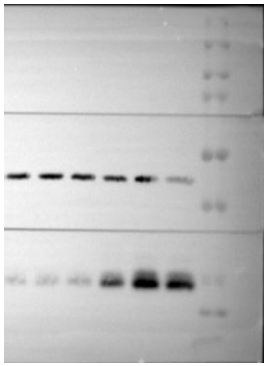
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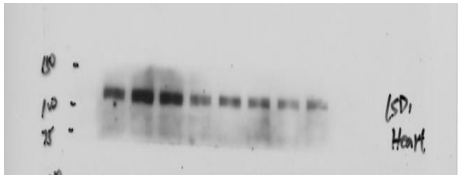
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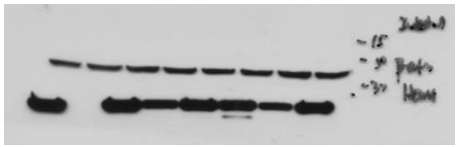
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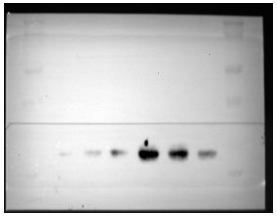


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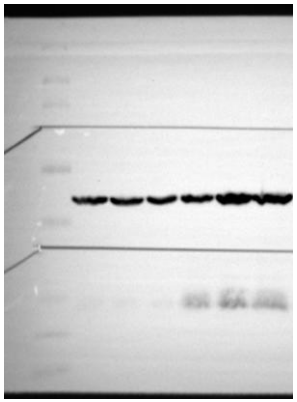






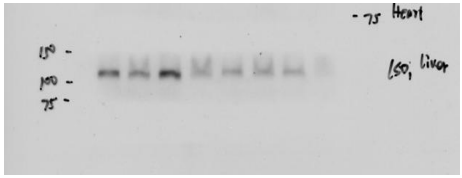
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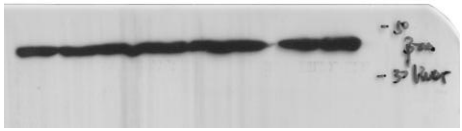
Liver

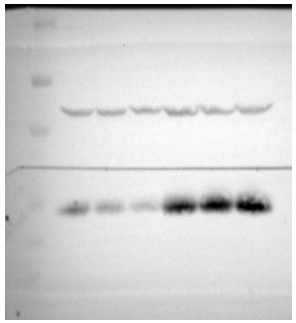


Actin

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Actin

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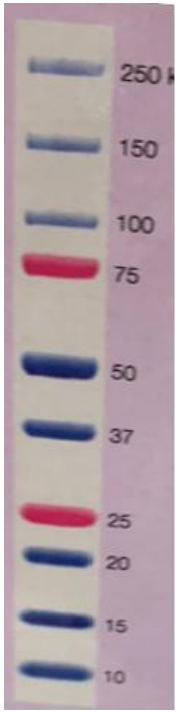
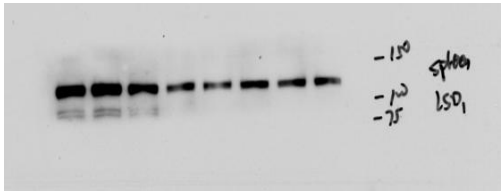
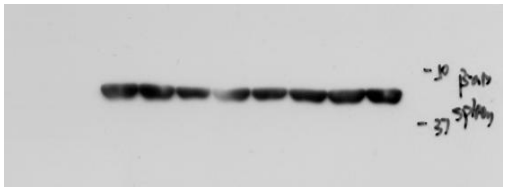


Figure 1D -1F

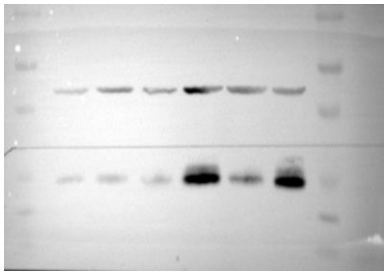
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LSD1

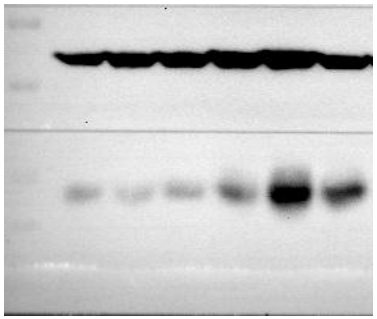


Actin



Actin

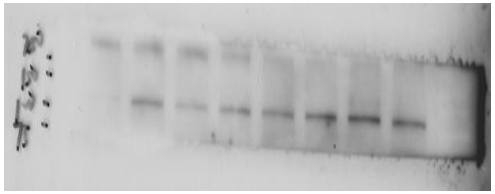
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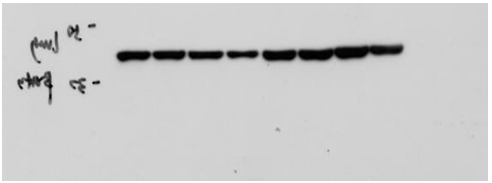
Actin

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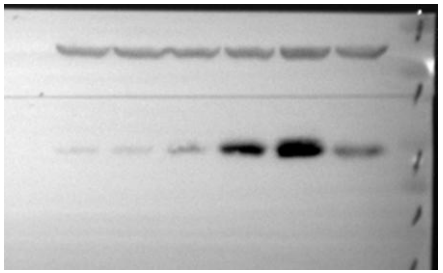
Lung



LSD1

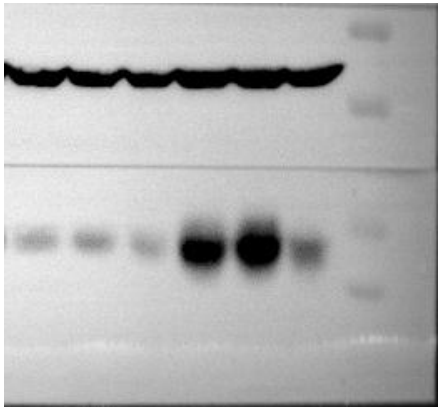


Actin



Actin

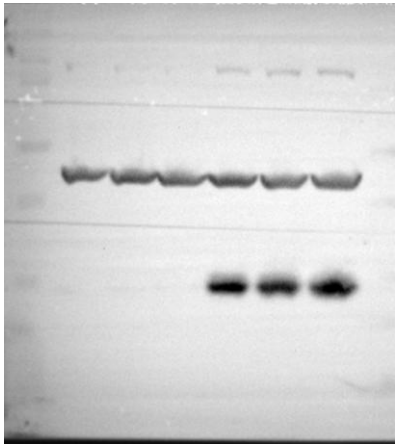
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Actin

p16

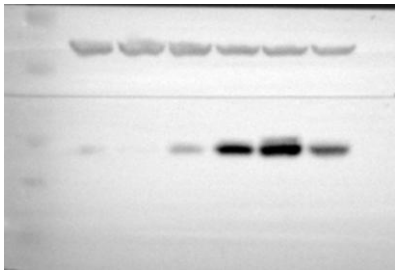
Intestine



LSD1

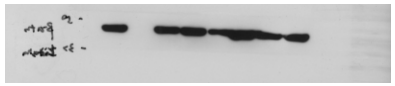
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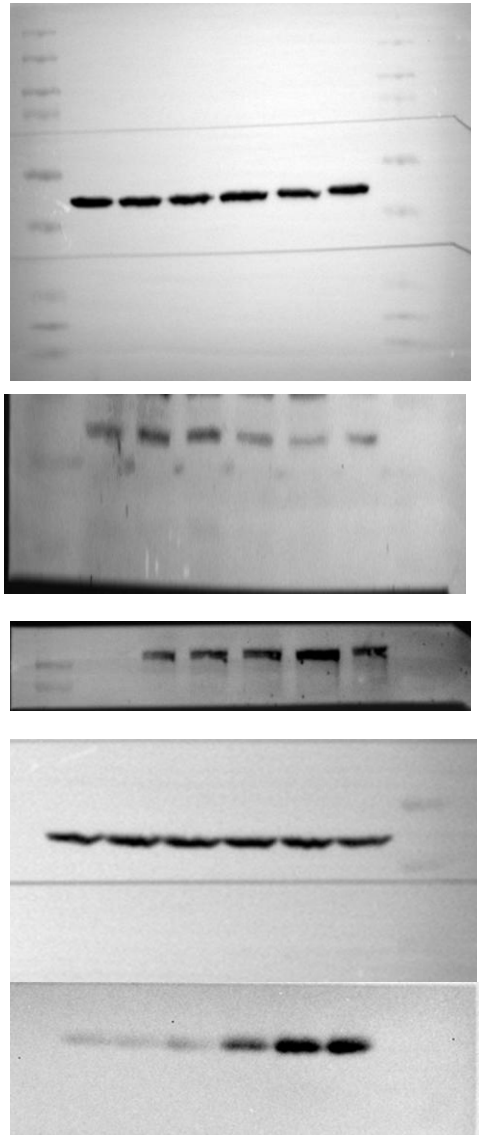
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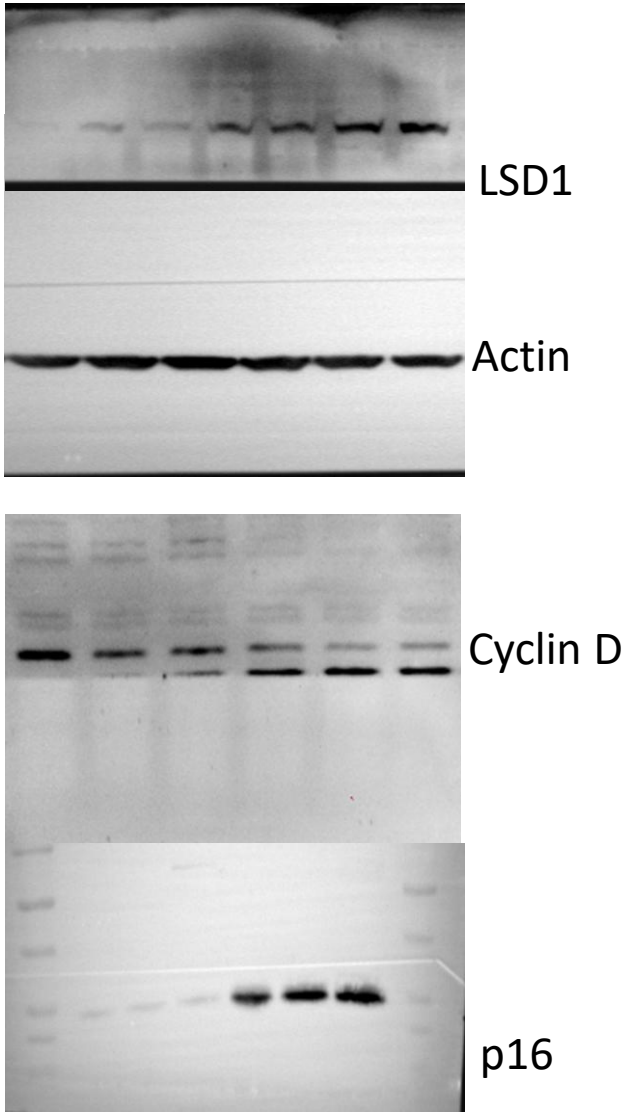
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Actin

Figure 1J


Actin
Cyclin D
LSD1
Actin
p16


LSD1
Actin
Cyclin D
p16

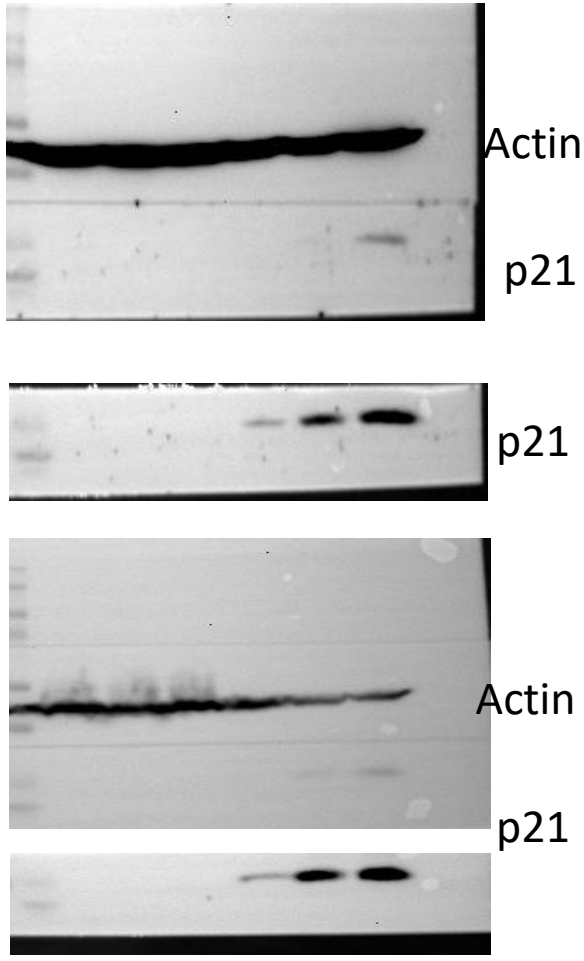
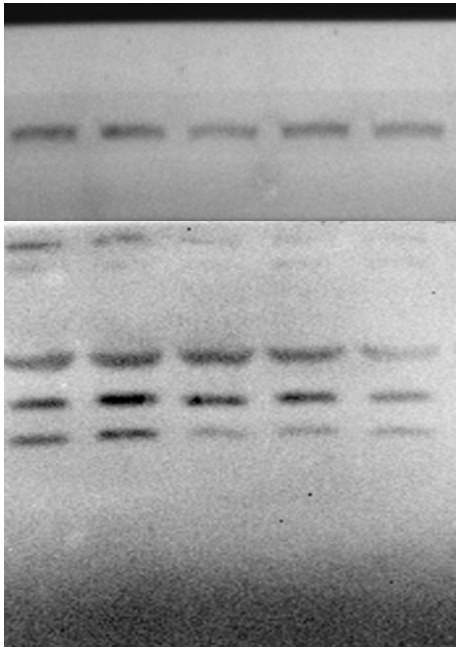
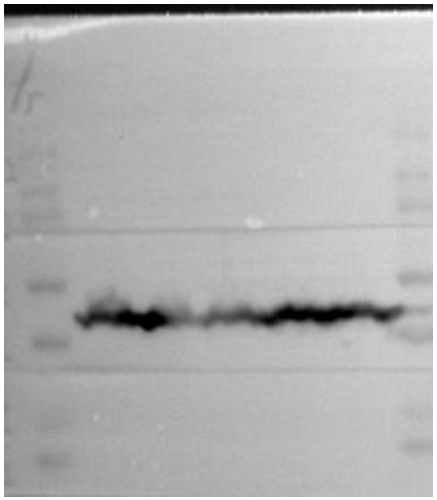

Actin
p21
p21
Actin
p21

Figure 1K

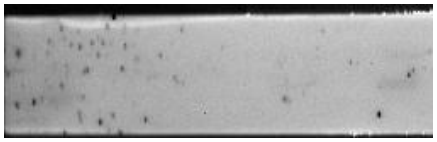


LSD1

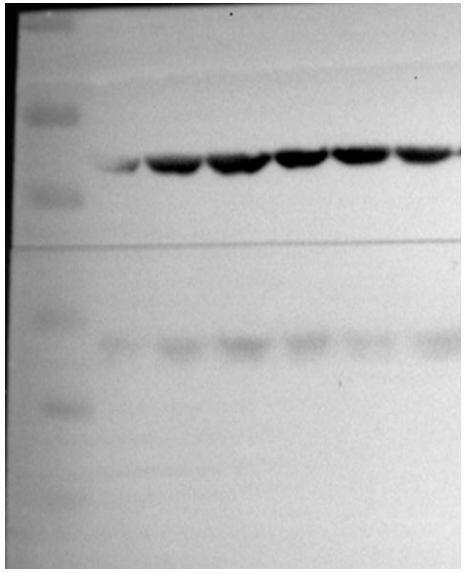
Cyclin D



Actin



p21



Actin

p16

Figure 2A-2C

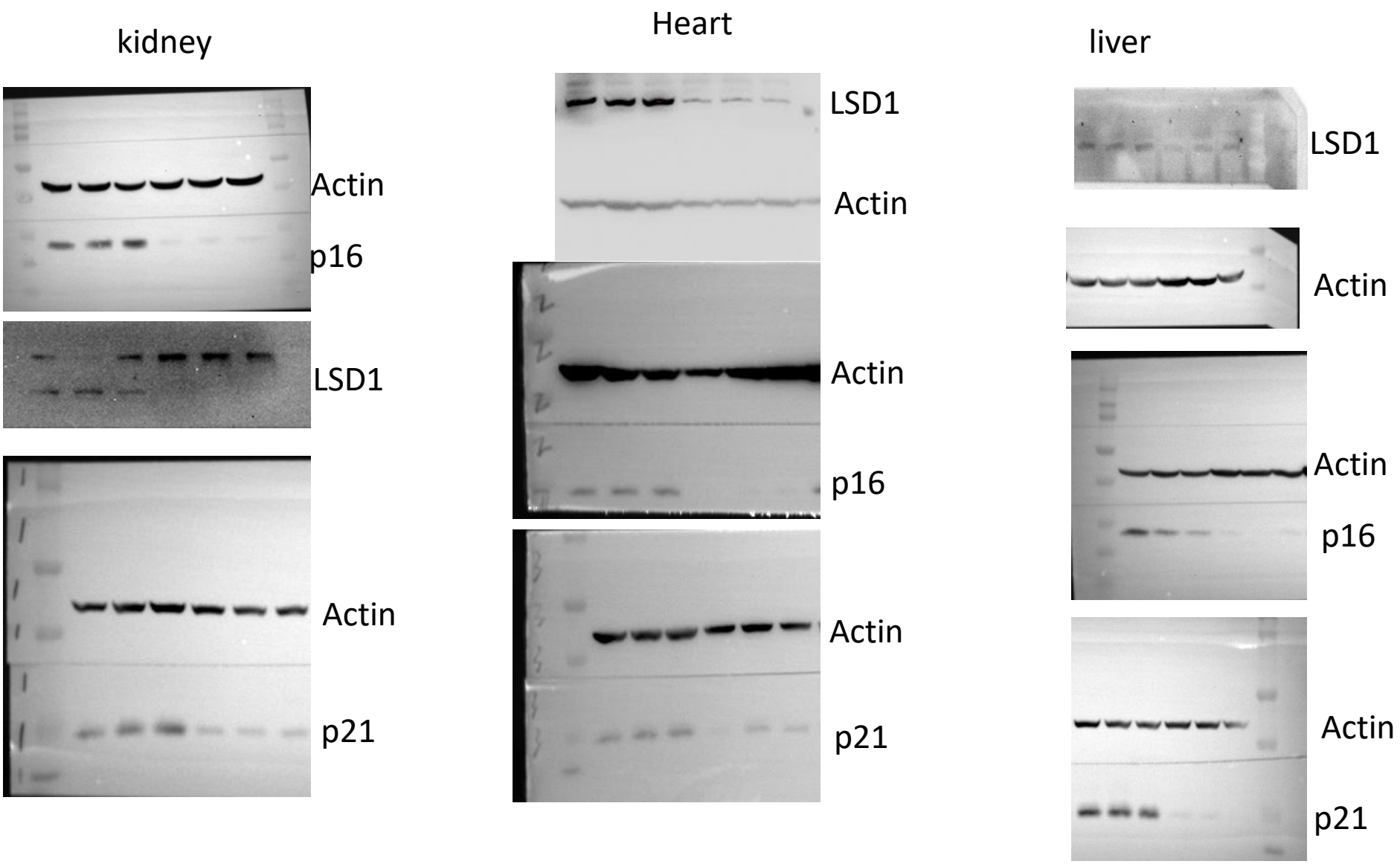
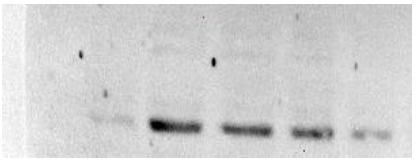
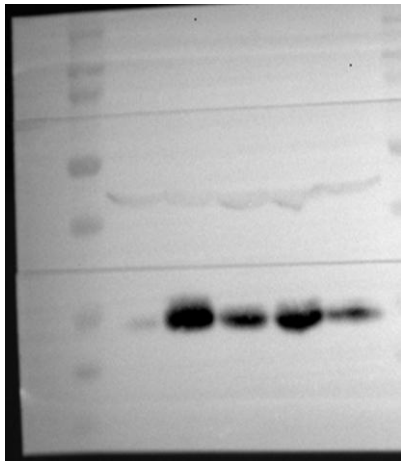

kidney
Actin
p16
LSD1
Actin
p21
Heart
LSD1
Actin
Actin
p16
Actin
p21
liver
LSD1
Actin
Actin
p16
Actin
p21

Figure 2D

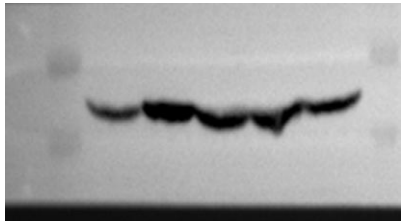


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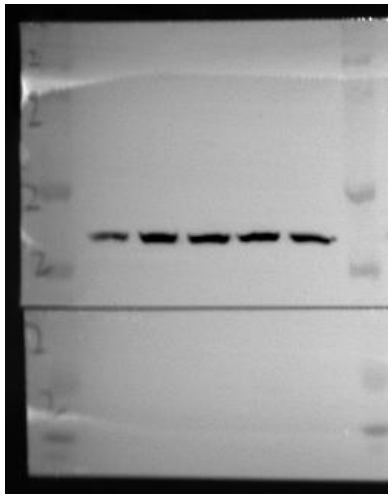


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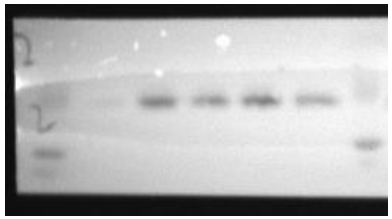
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Actin



Actin



p21

Figure 2G

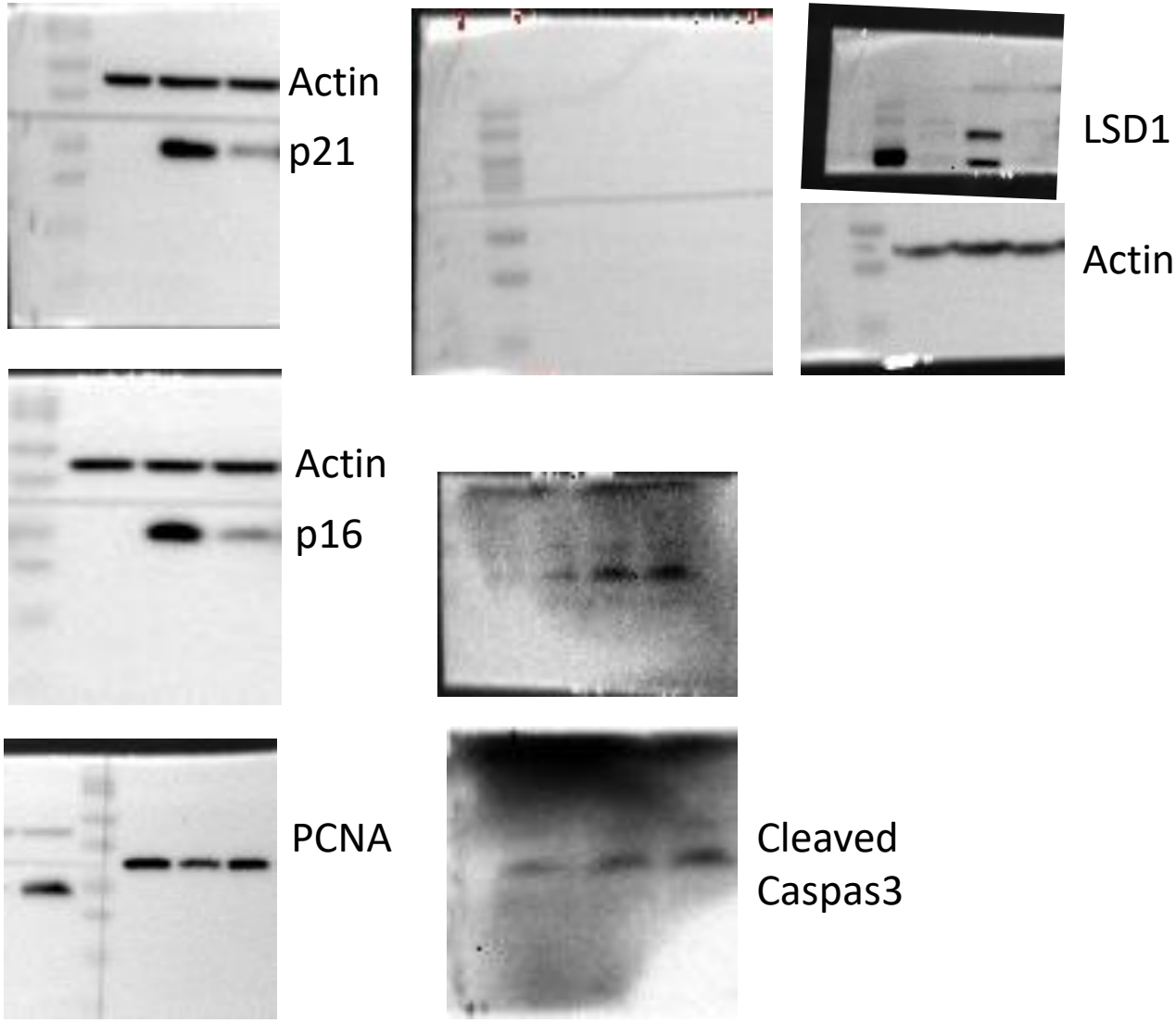
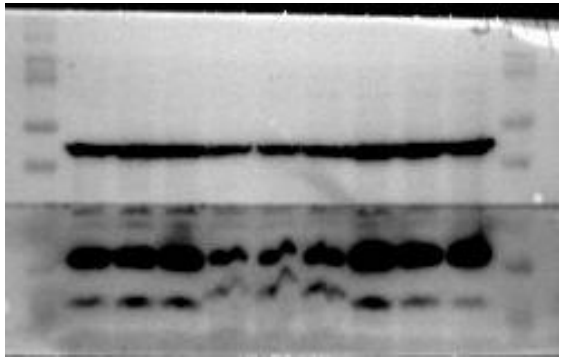
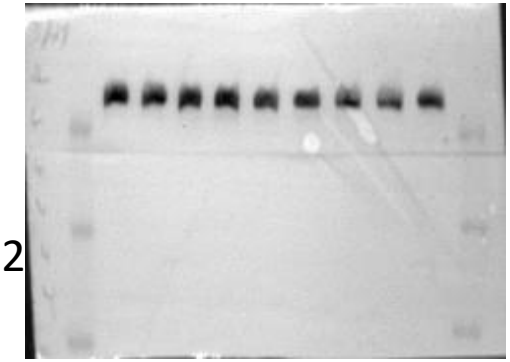
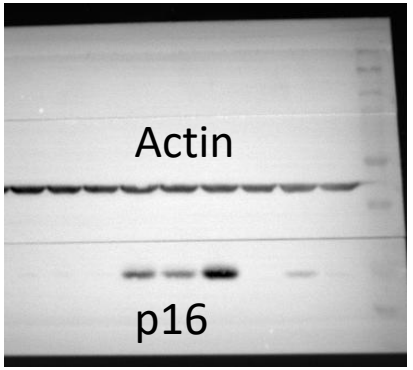
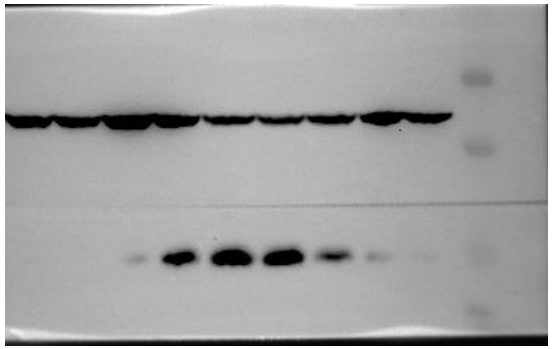


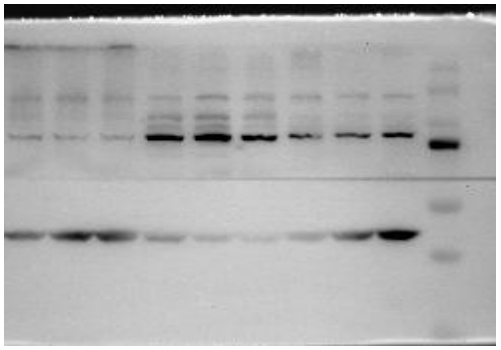
Figure 3C (kidney)

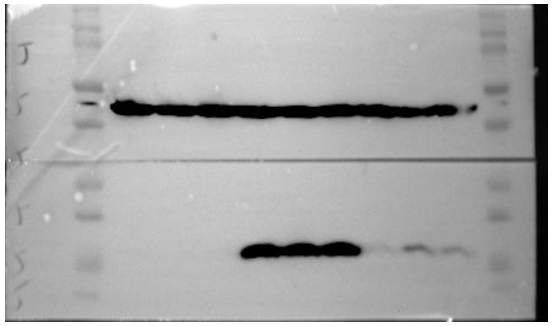


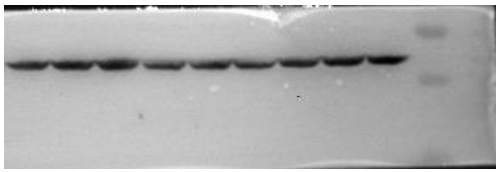












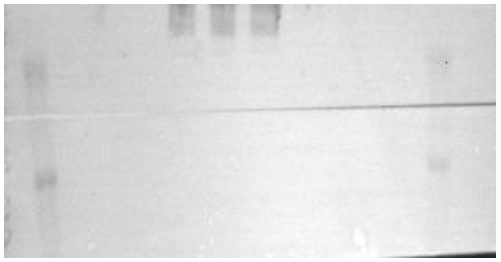
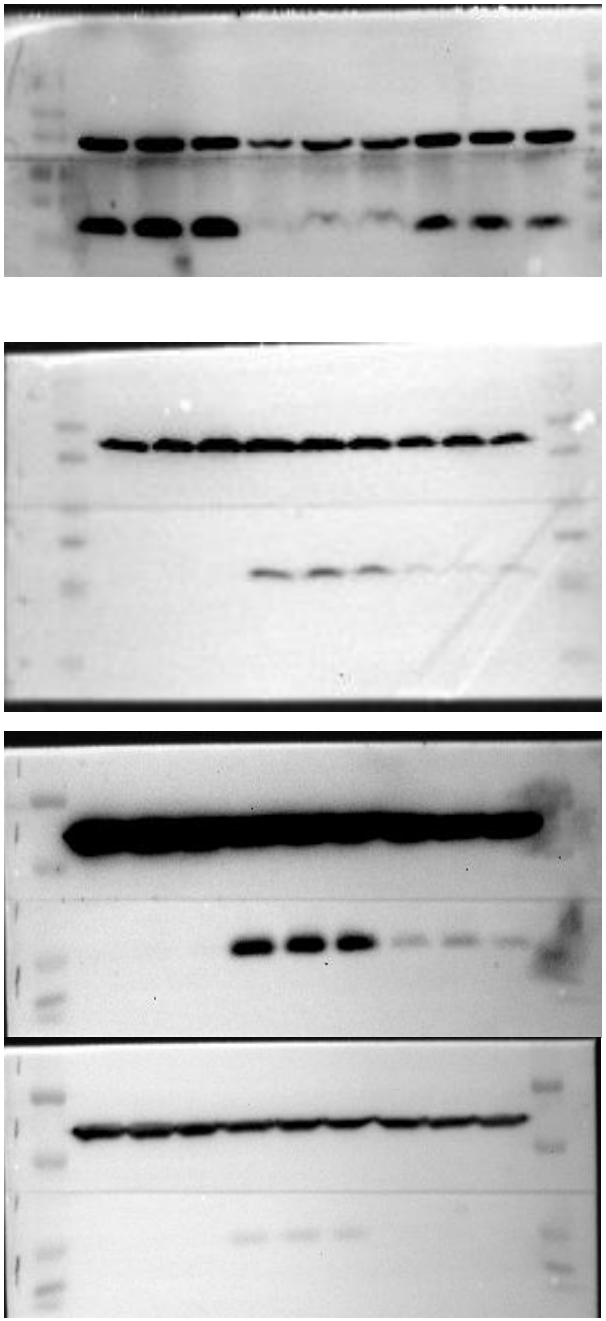


Figure 3C (Heart)



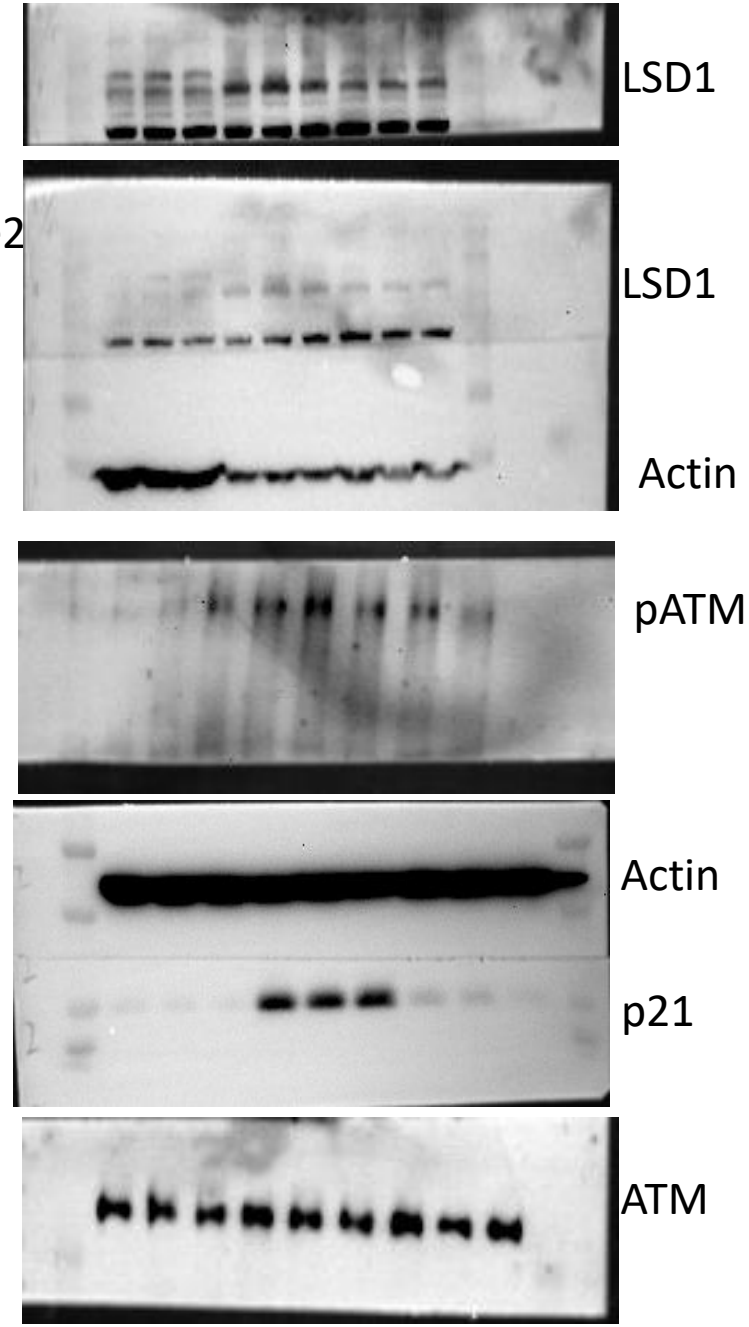


Figure 3C (liver)

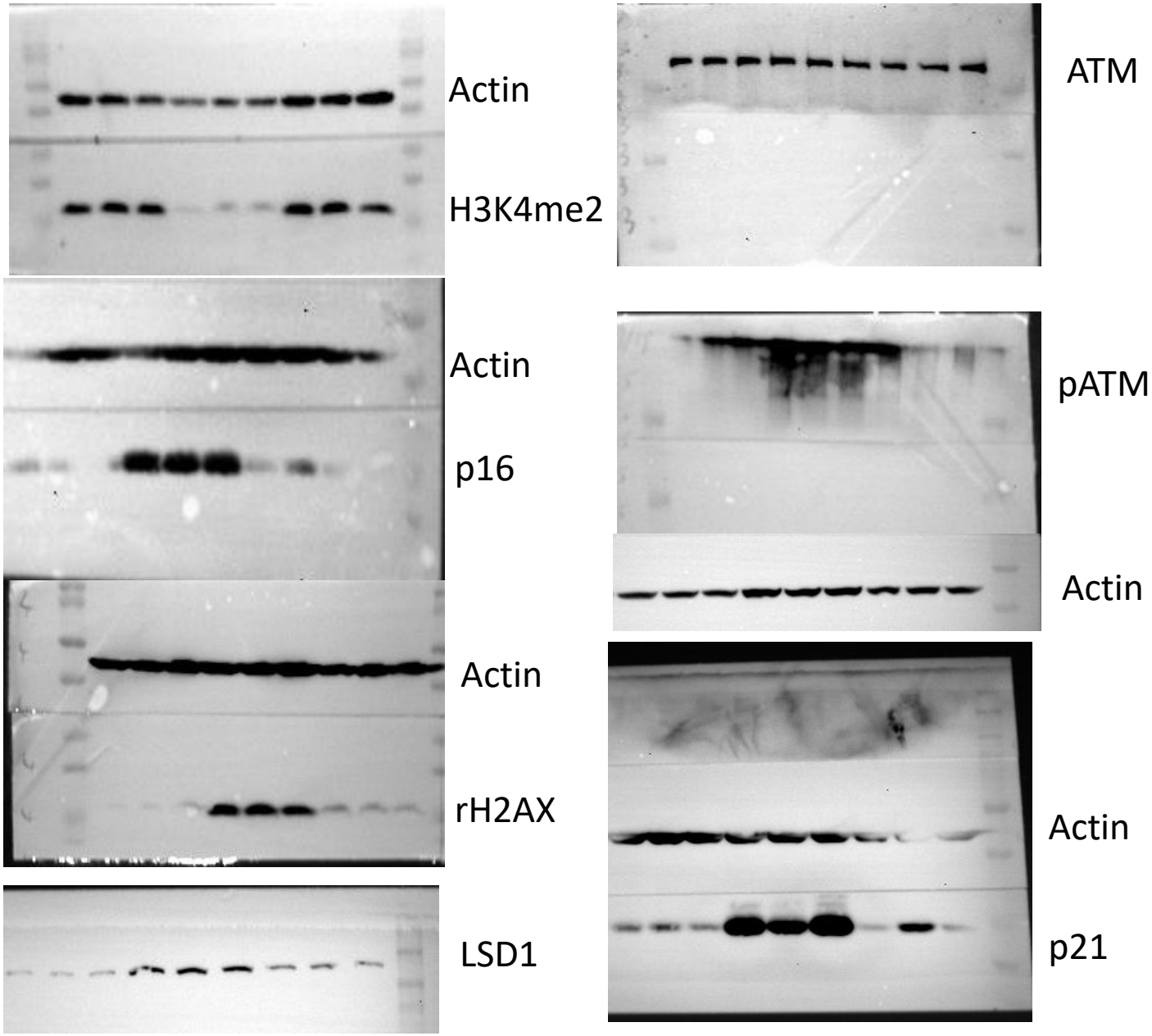
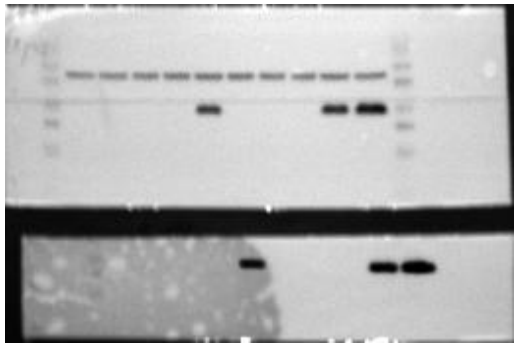
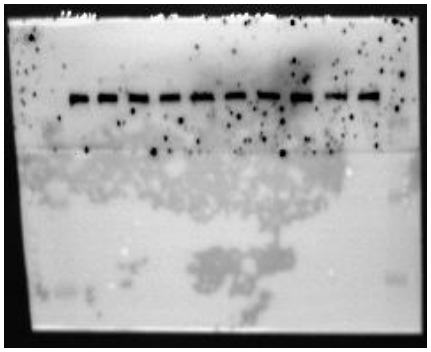
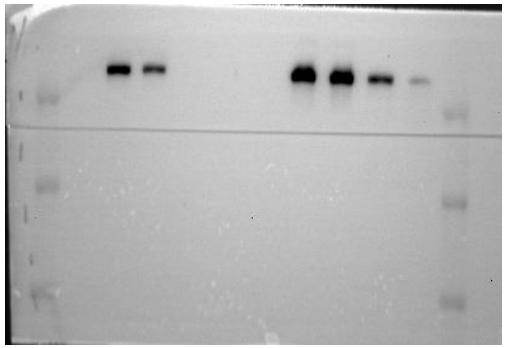


Figure 4A







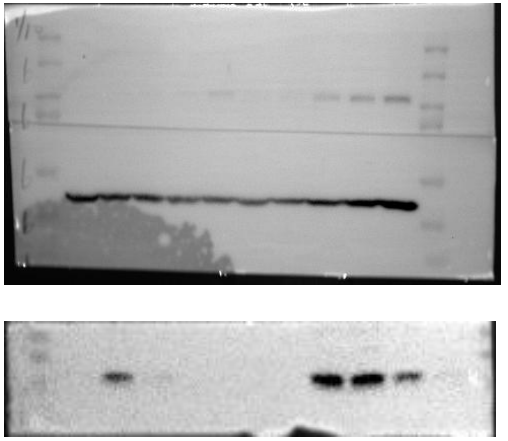
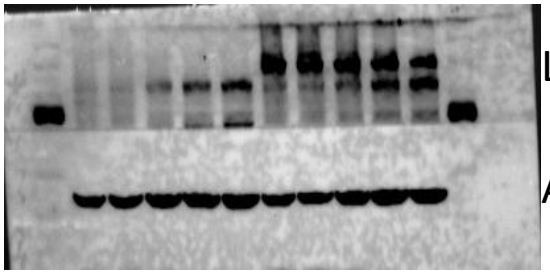
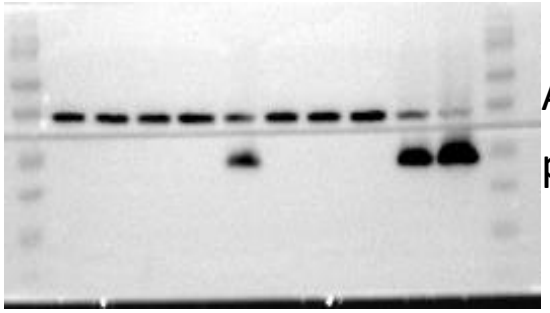


Figure 4B



LSD1

Actin

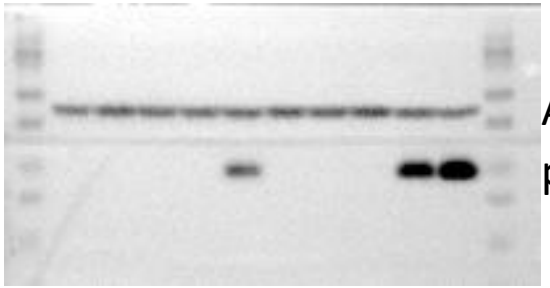


Actin

p16

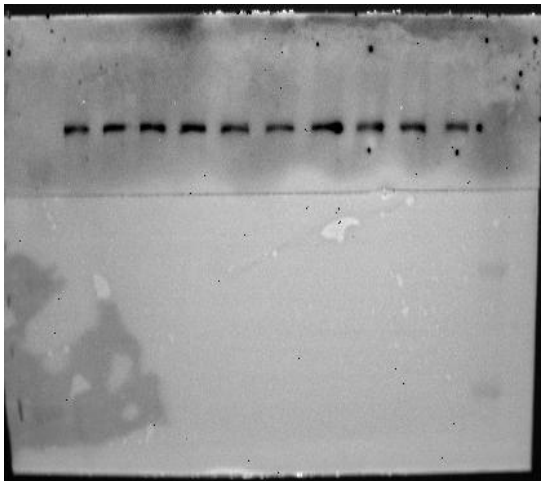


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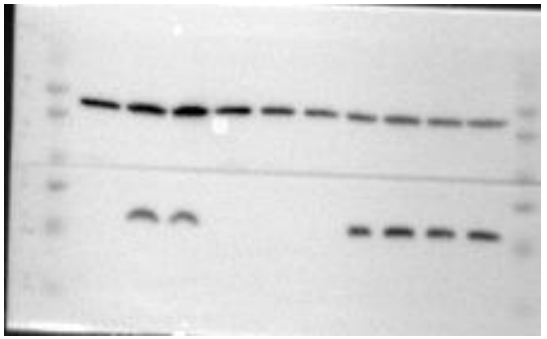


Actin

p21

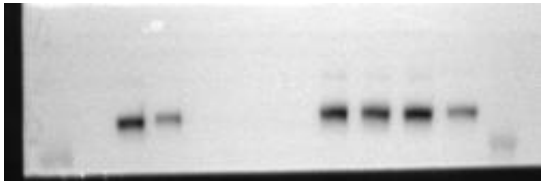


ATM



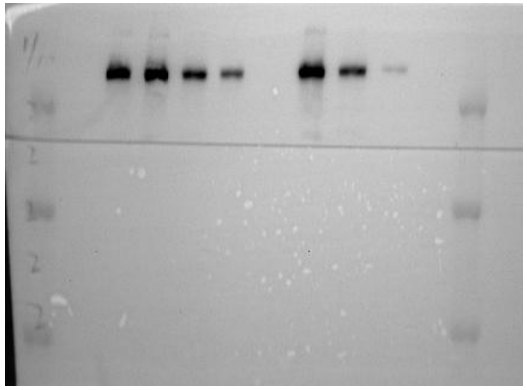
Actin

rH2AX

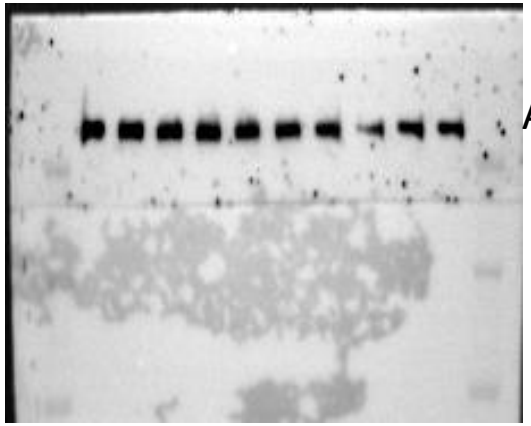


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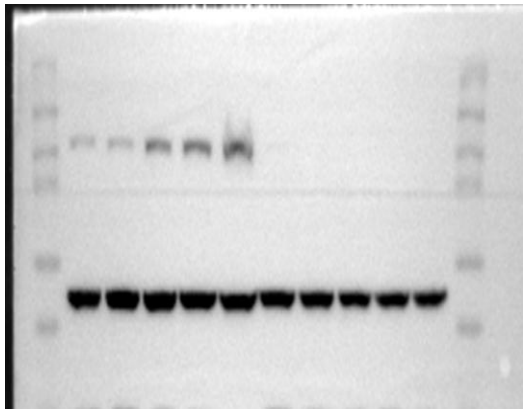
Figure 4C



pATM

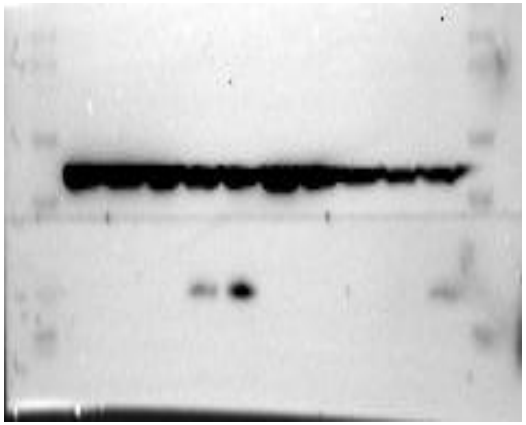


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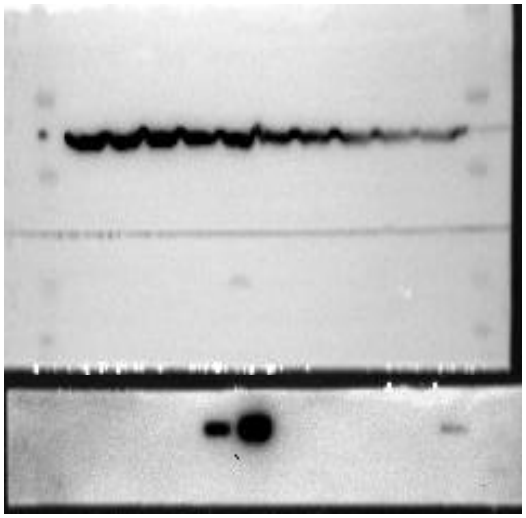
LSD1

Actin



Actin

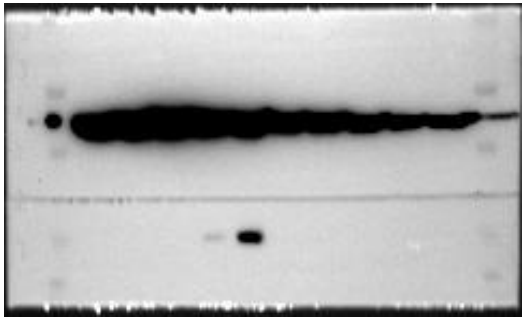
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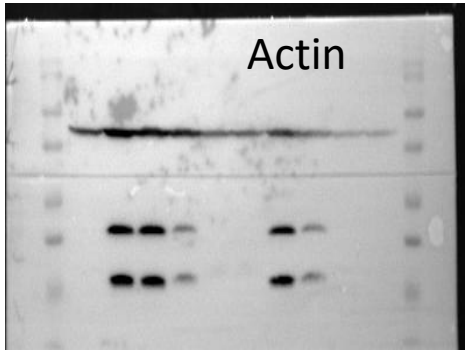
Actin

p16

p16

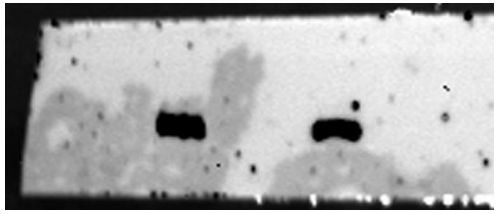


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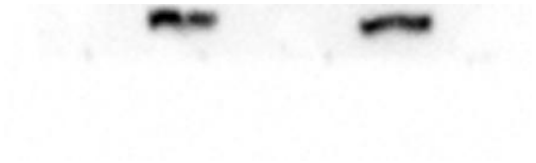


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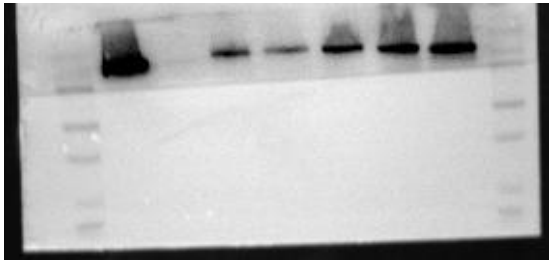
Figure 5A,5B,5D



ATM

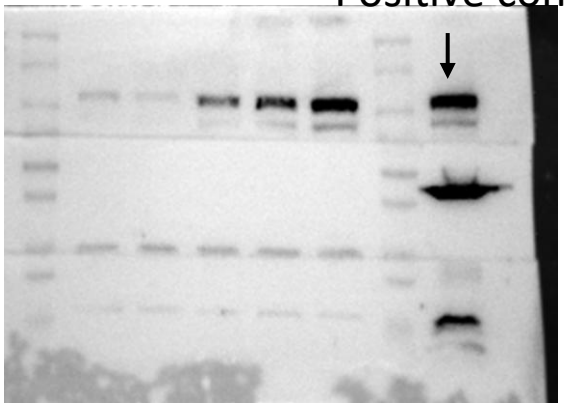


LSD1



LSD1

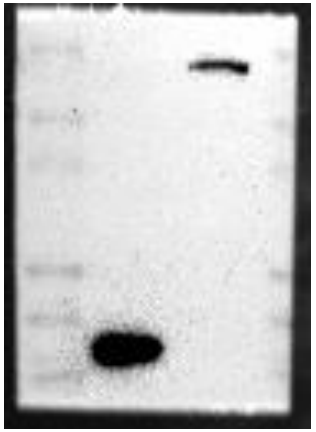
Positive control



LSD1

Actin

H3

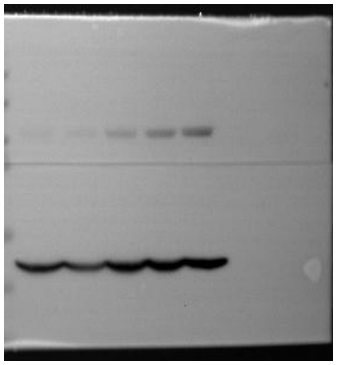


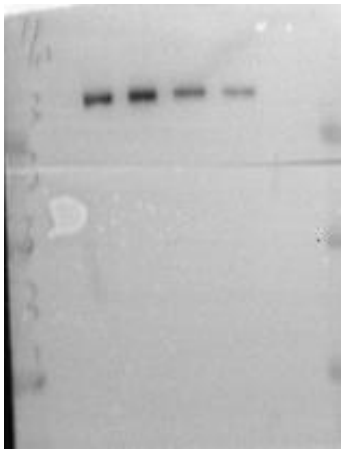
GFP

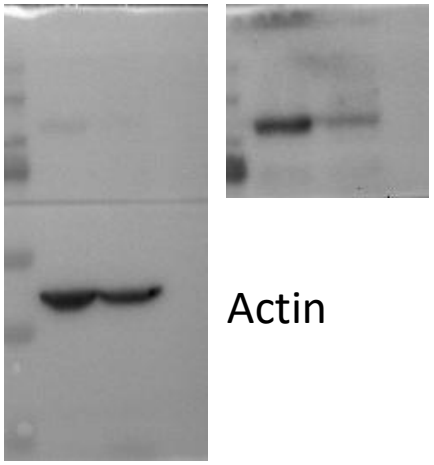


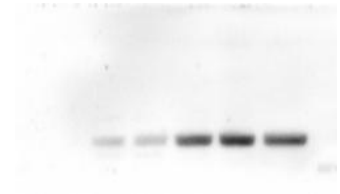
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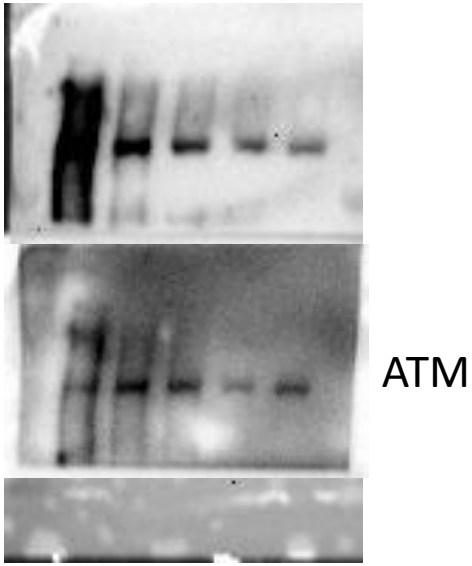
Figure 5C and 5E

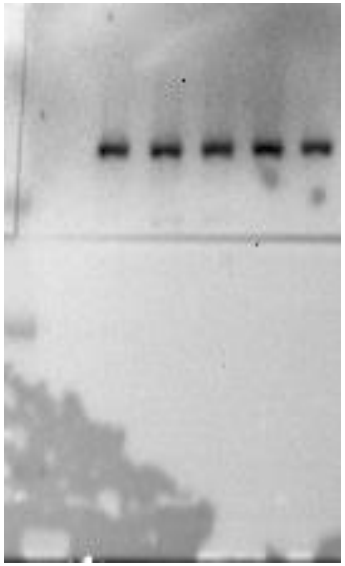














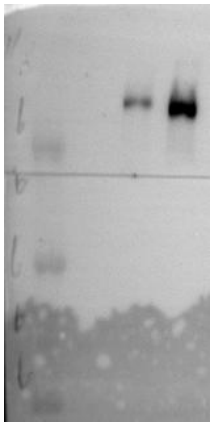
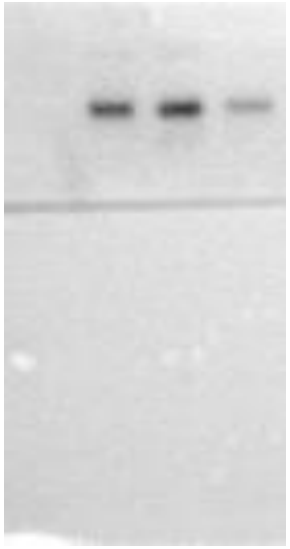
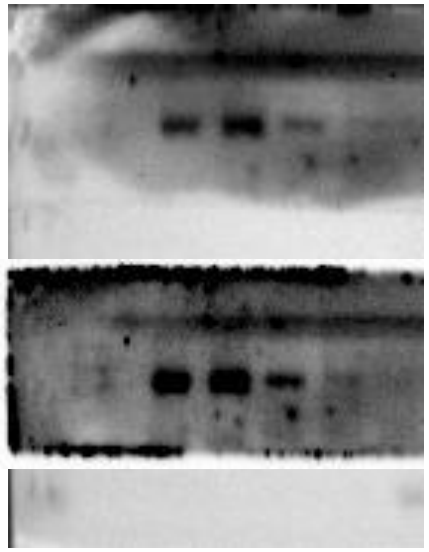


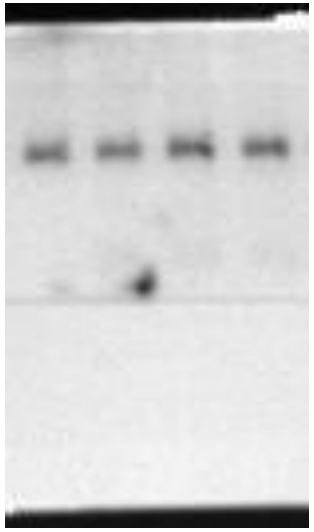
Figure 5F



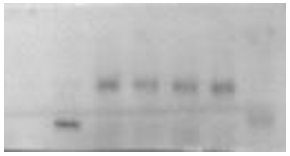
pATM



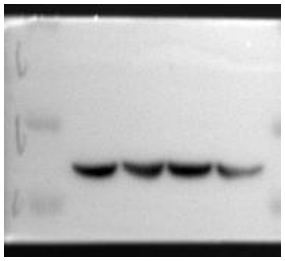
Pan-Methy



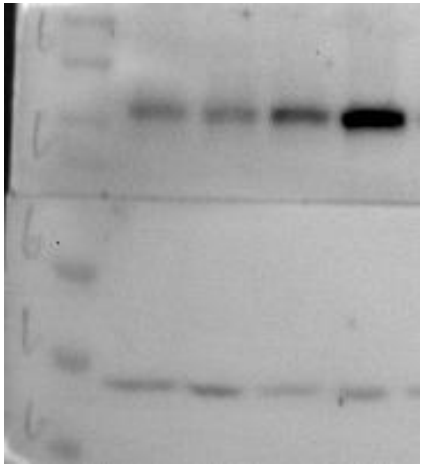
ATM



ATM



Actin



LSD1

GAPDH

Figure 5G

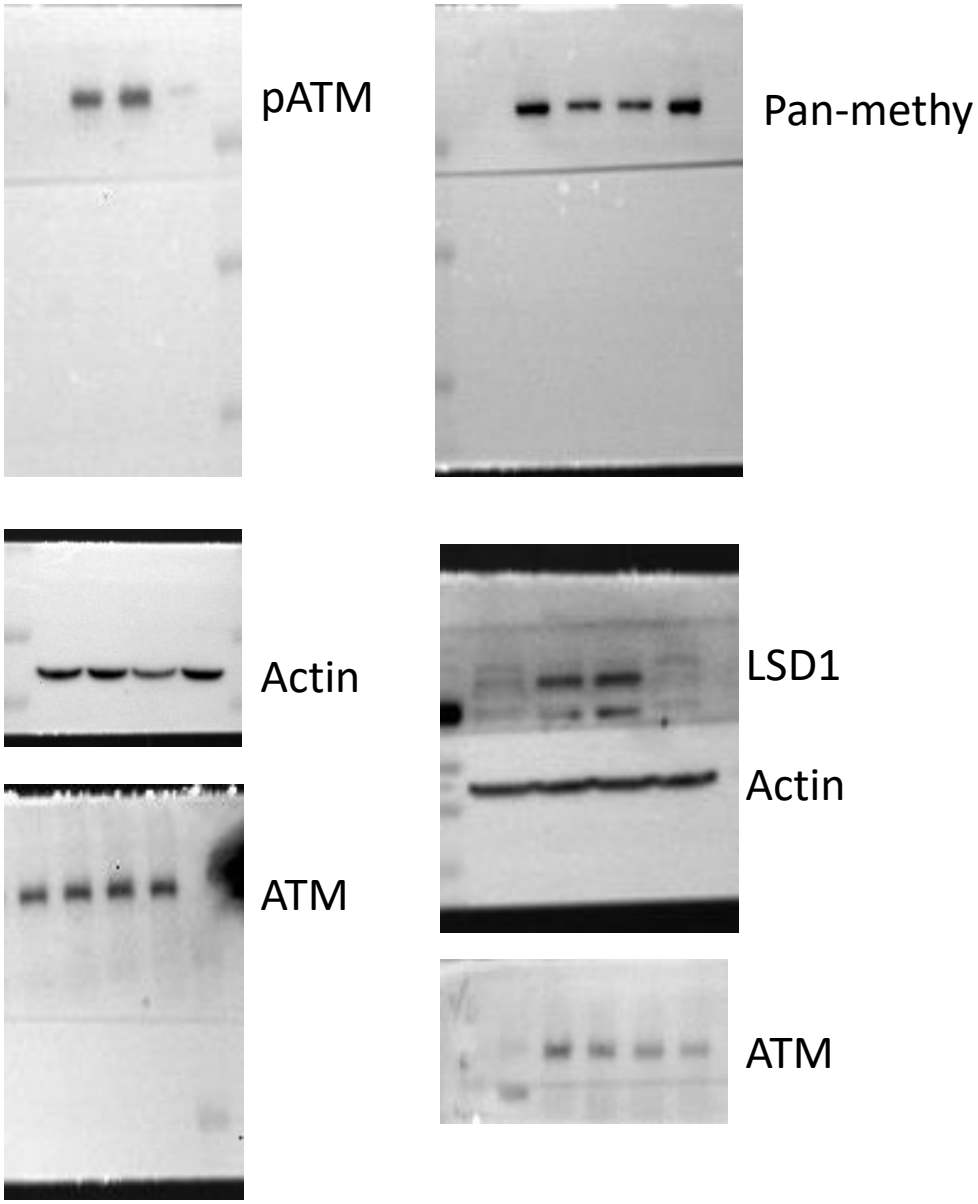


Figure 6A

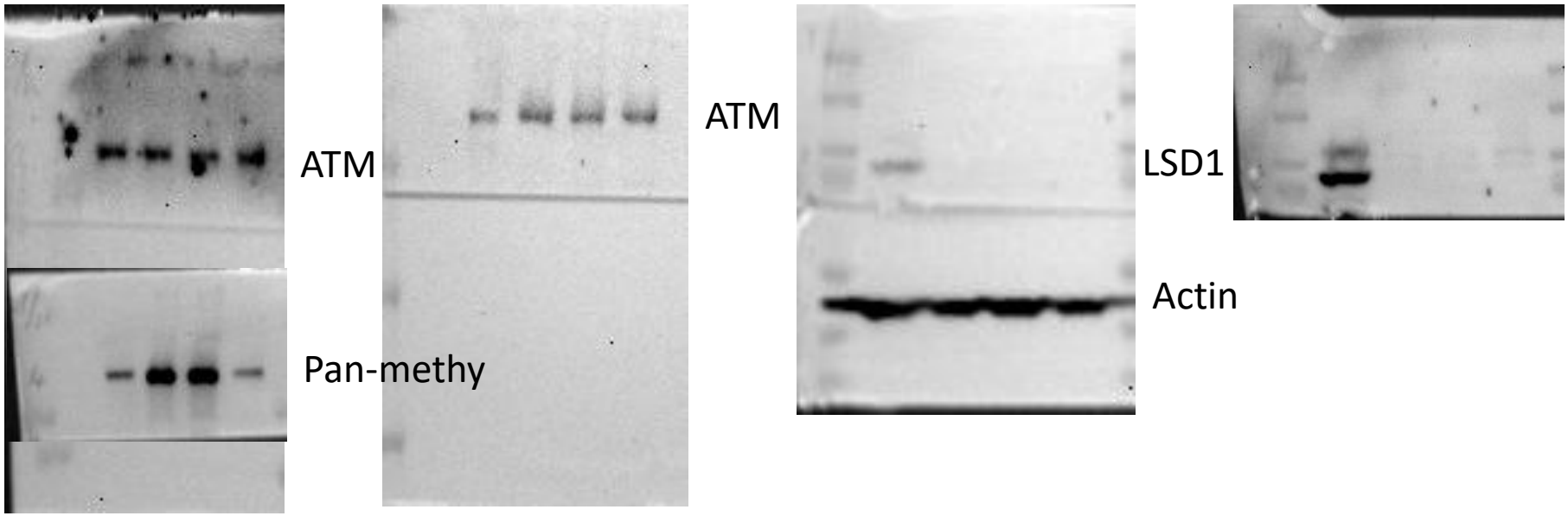
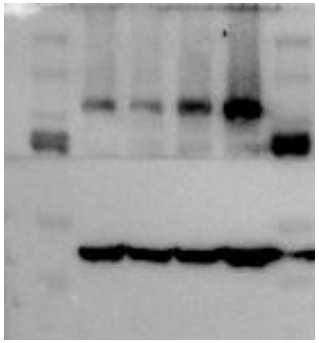
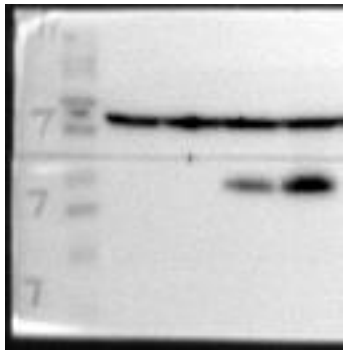
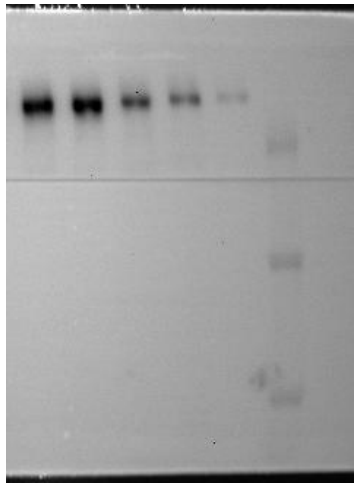
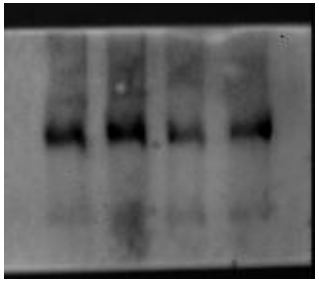


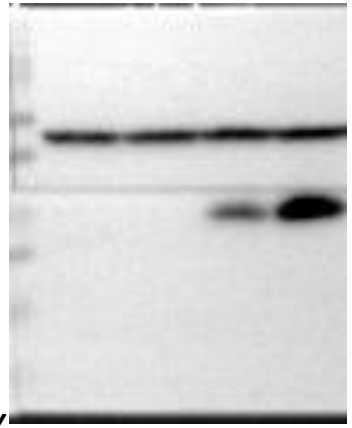
Figure 6B and 6C

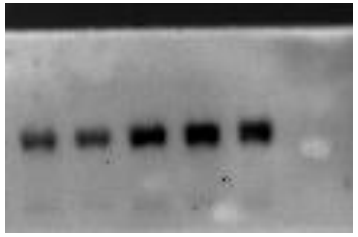


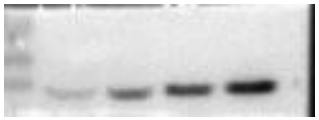


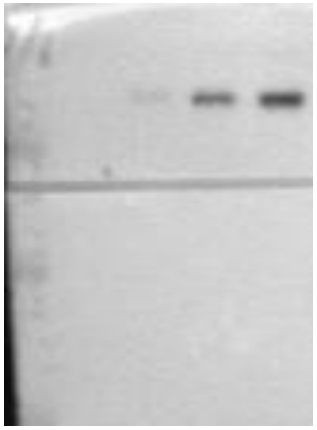


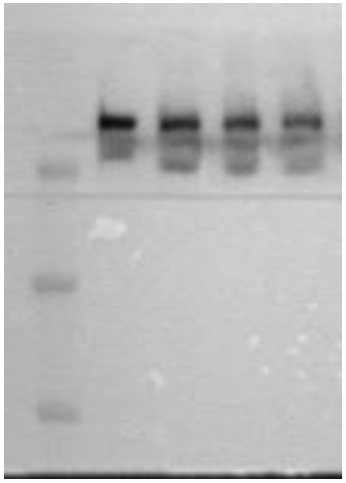


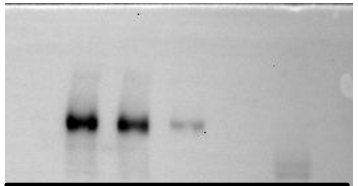












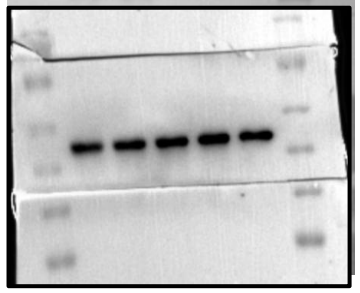
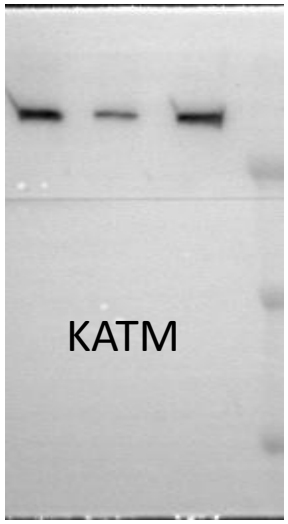
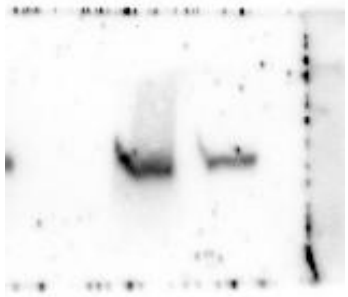
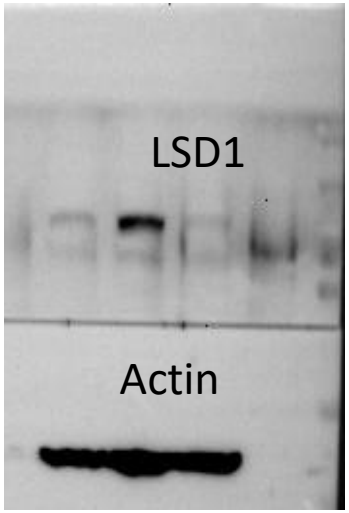
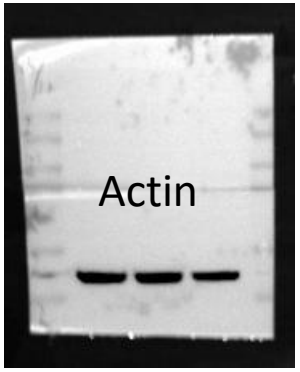


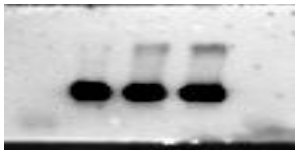
Figure 6D and 6F



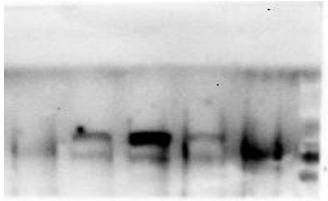




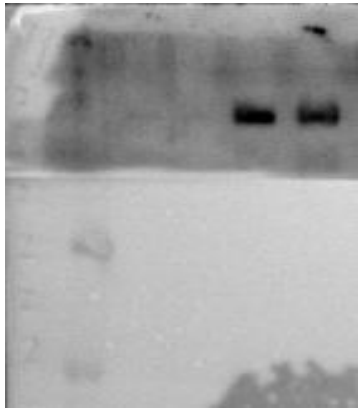




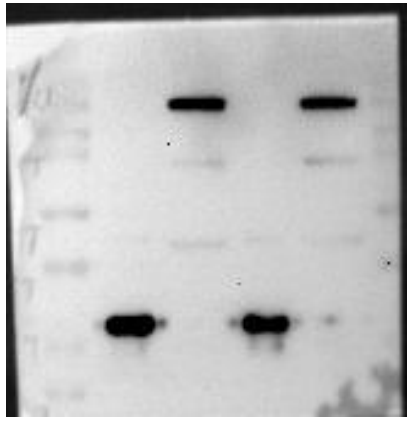
ATM



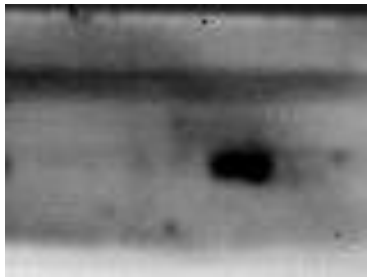
LSD1



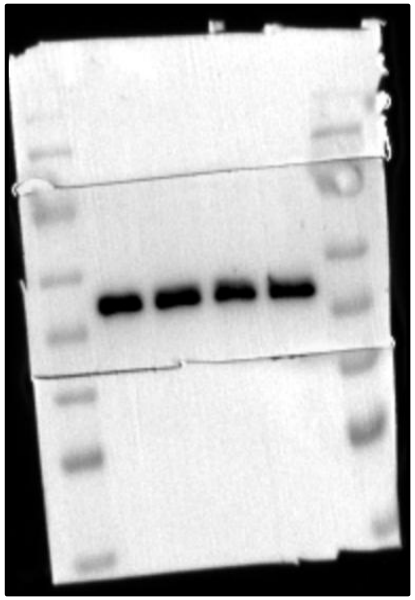
Flag-ATM



GFP

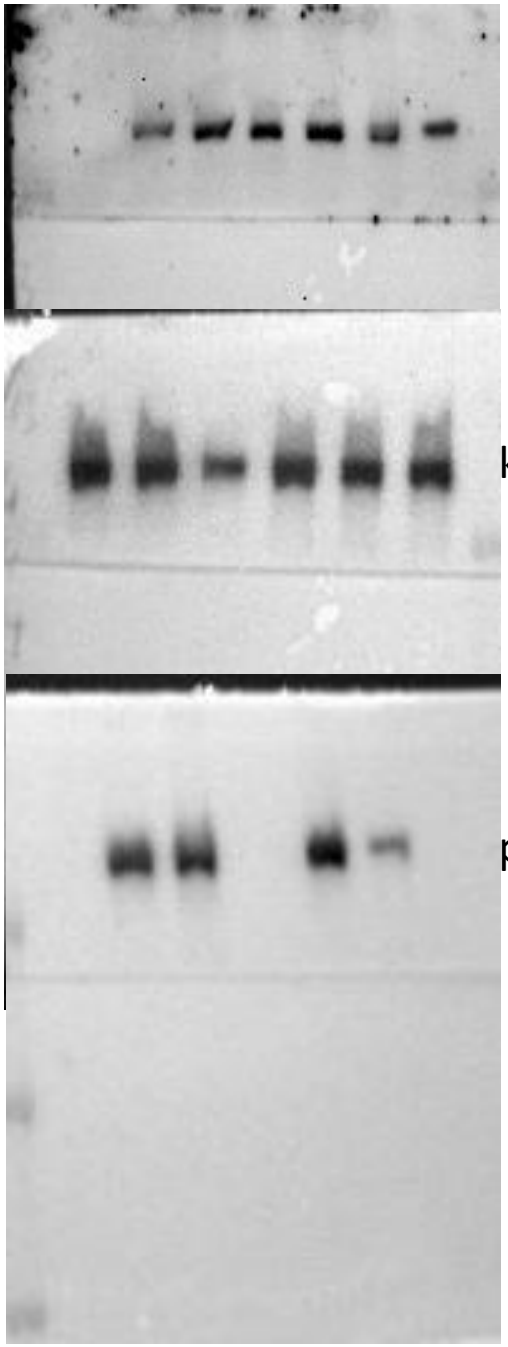


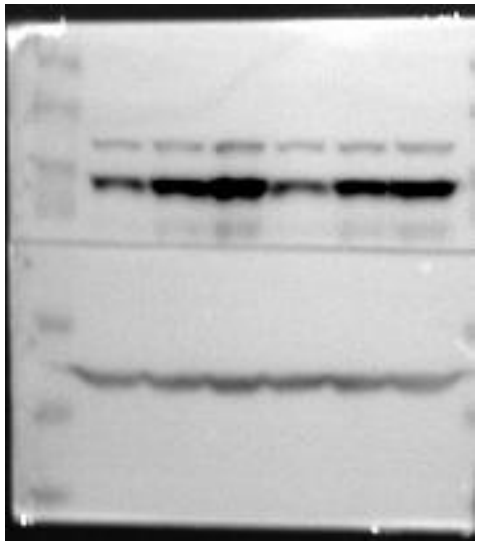
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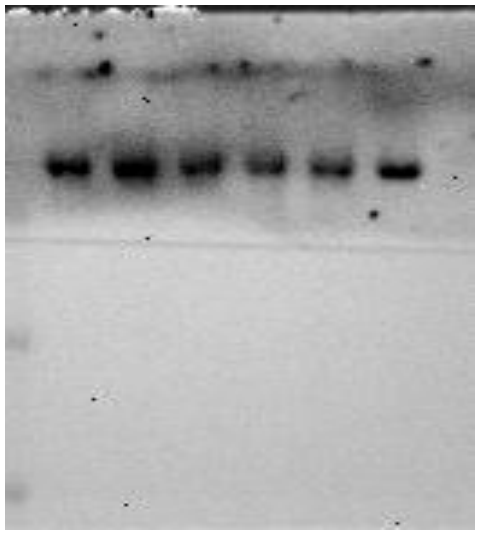


Actin

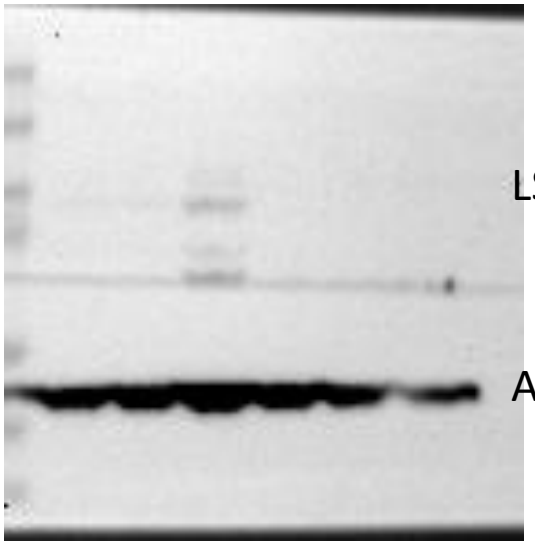
Figure 6G

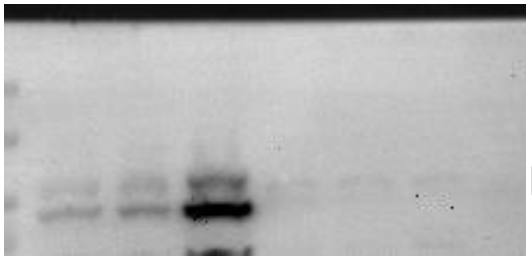












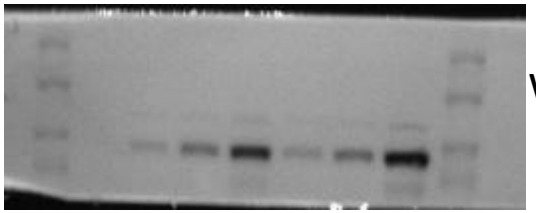


Figure 6H

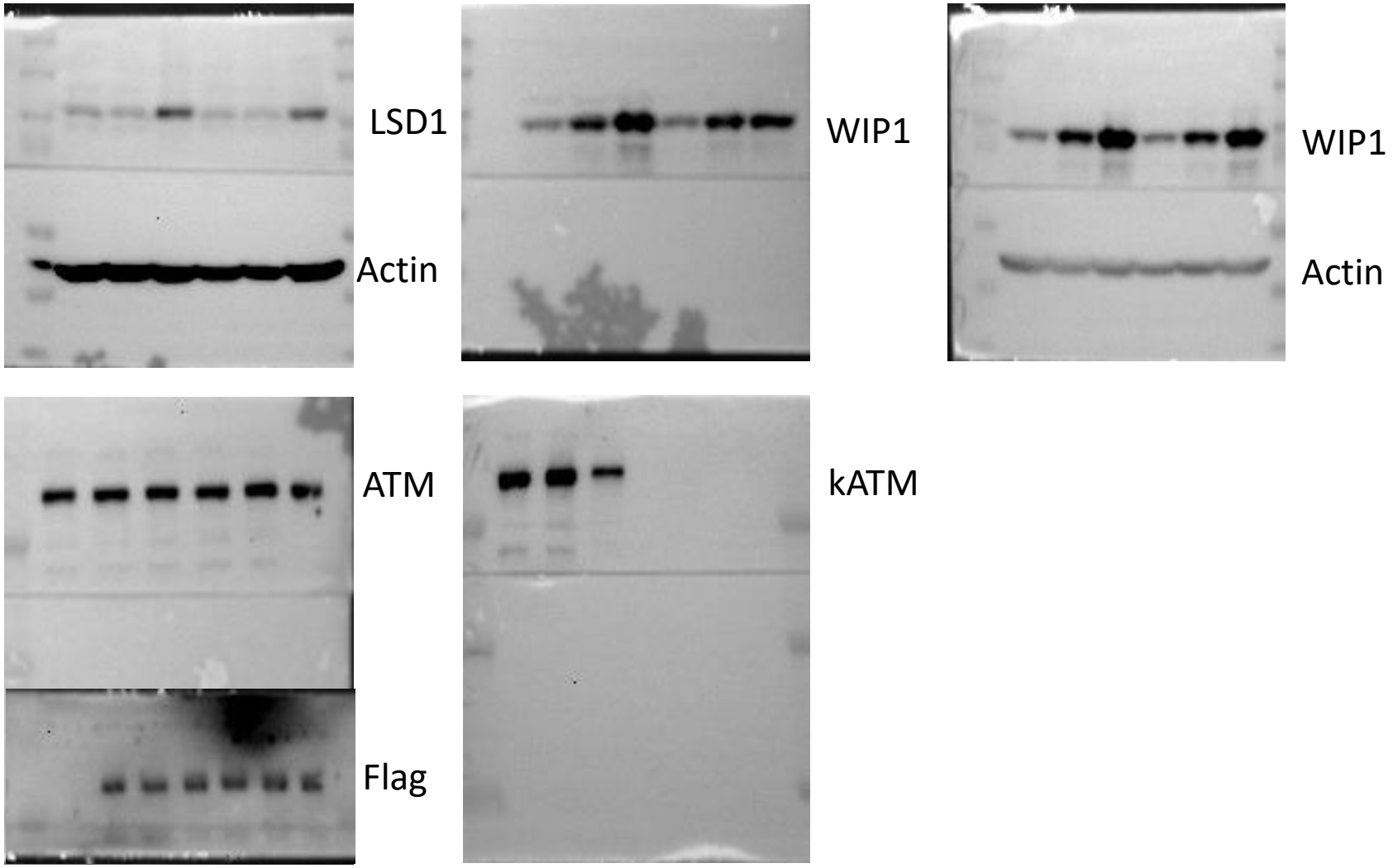
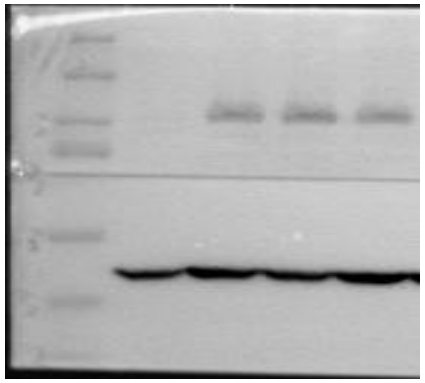
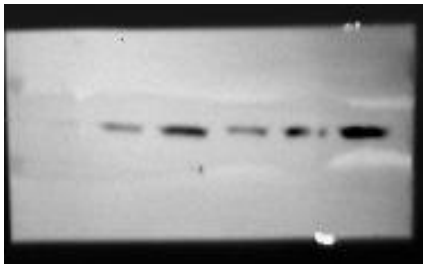


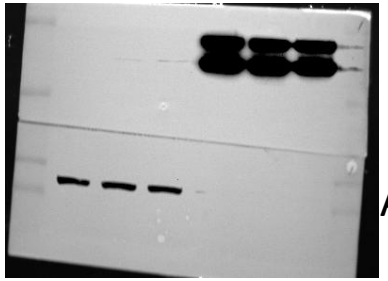
Figure 7A -7C,7E

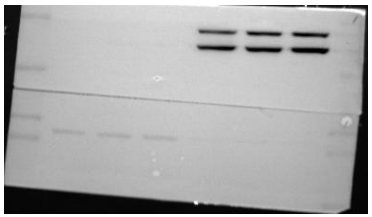
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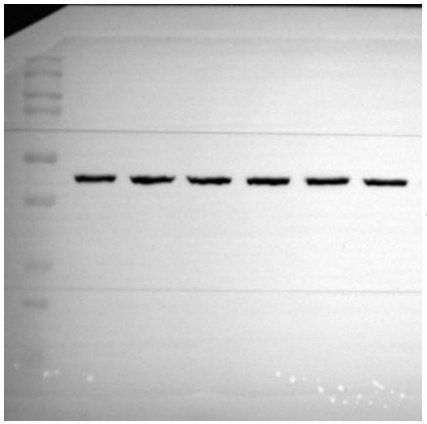
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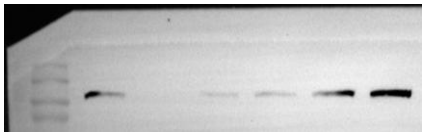


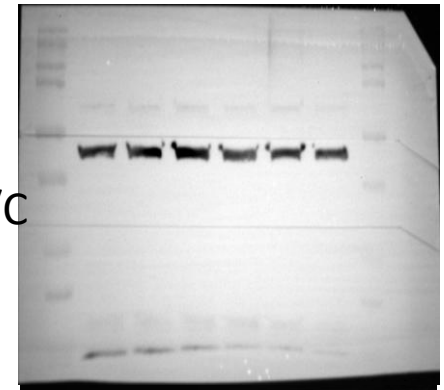


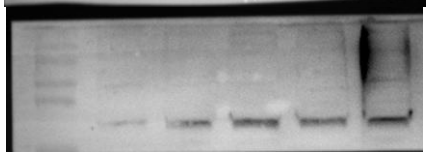


B









C

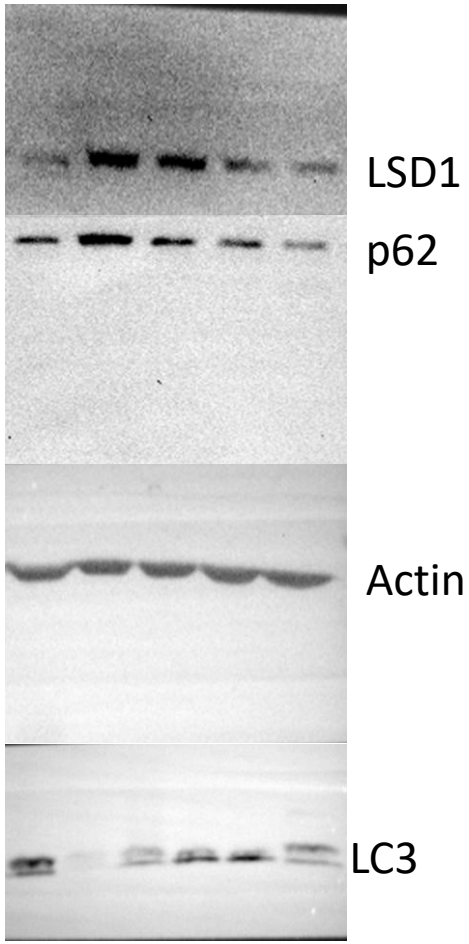
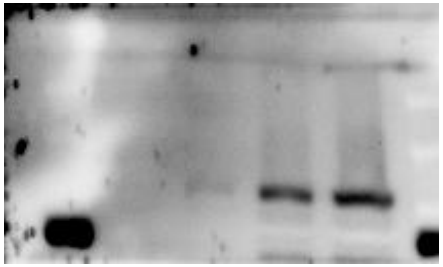


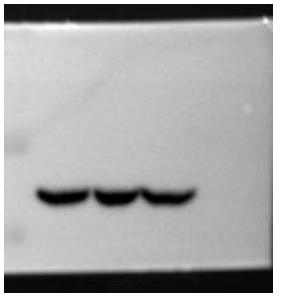
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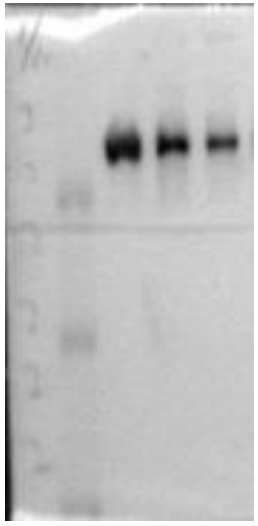
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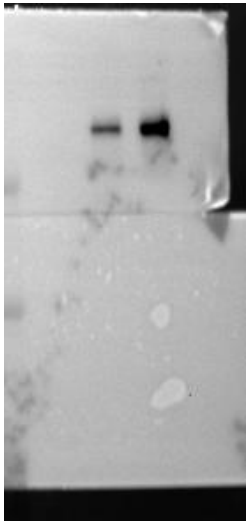
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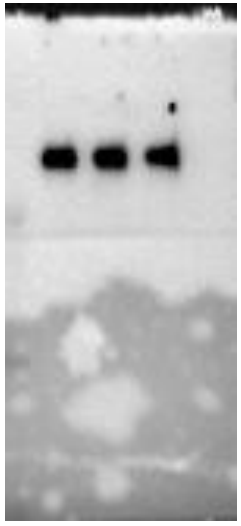
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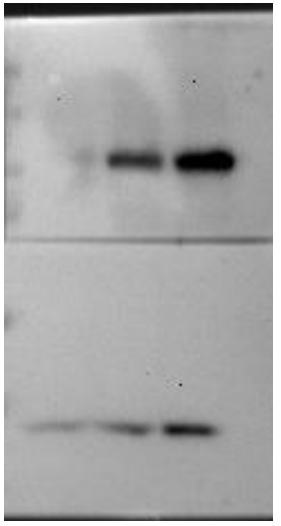
ATM-K3016me



P-ATM



ATM



LSD1

GAPDH

Figure 7H

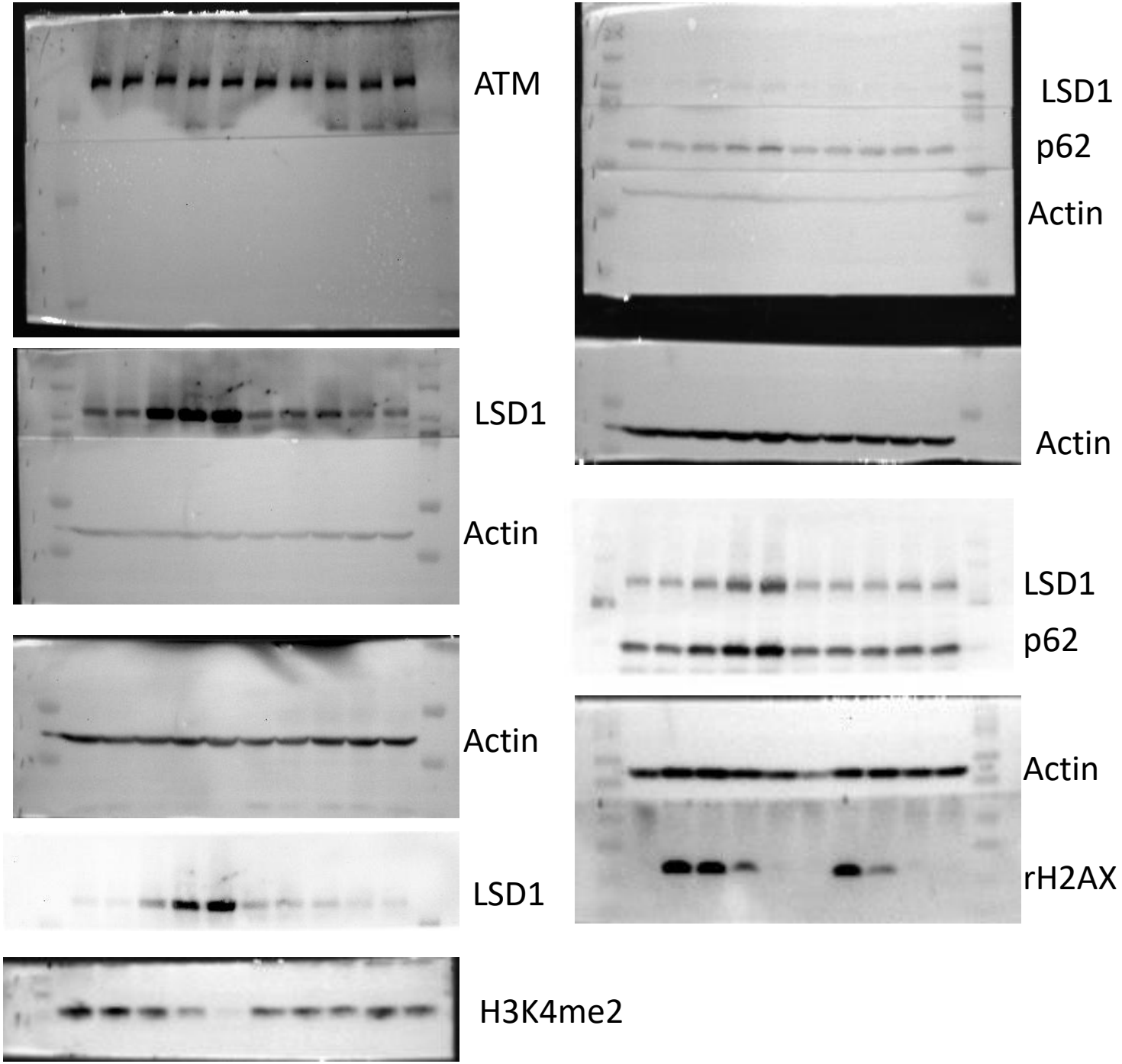
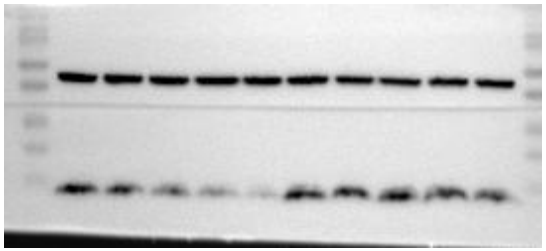
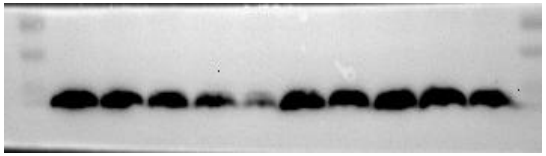

ATM
LSD1
Actin
LSD1
p62
Actin
Actin
LSD1
p62
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Actin
LSD1
rH2AX
H3K4me2

Figure 7H

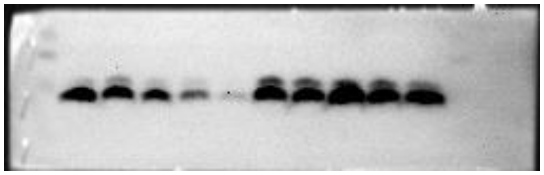


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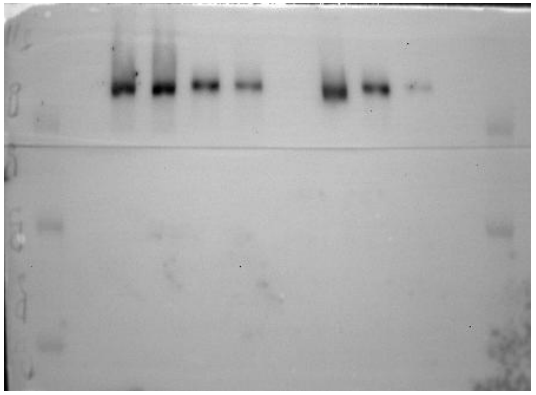
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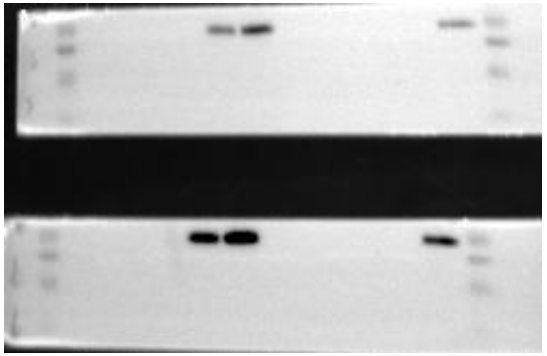
LC3



LC3



p-ATM

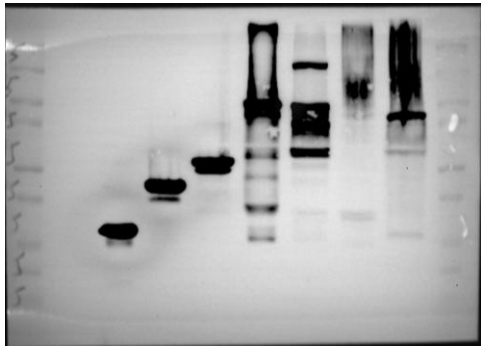


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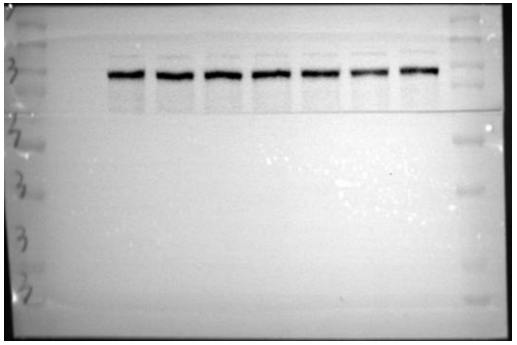
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Figure 8A-8C

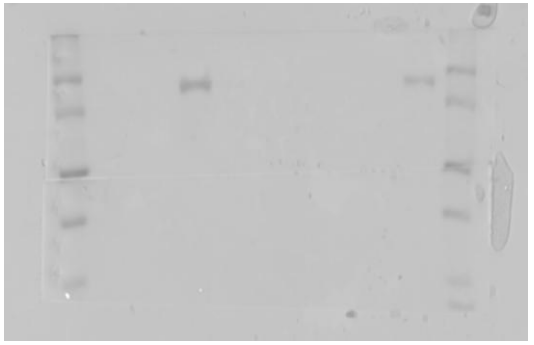
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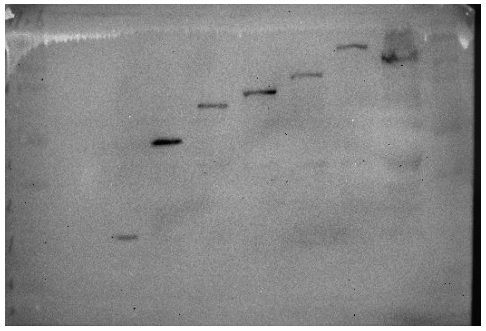
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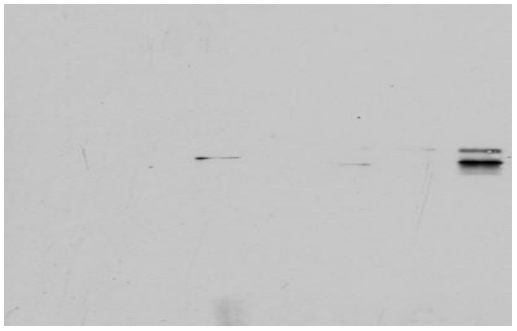
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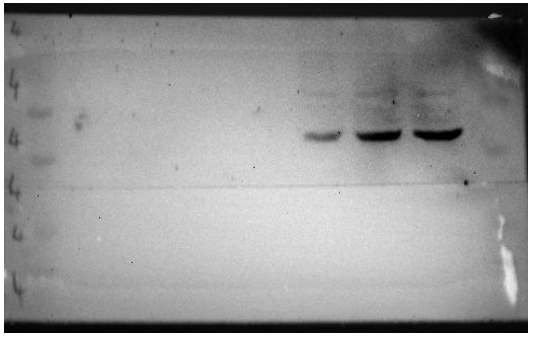
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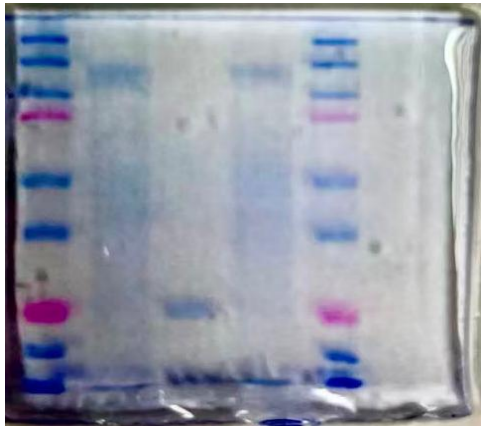


LC3

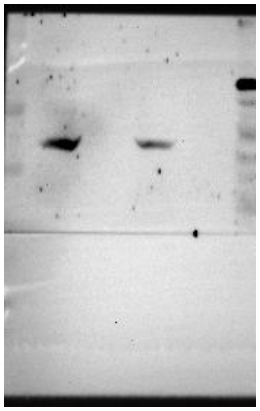


Beclin1





Beclin1



LC3

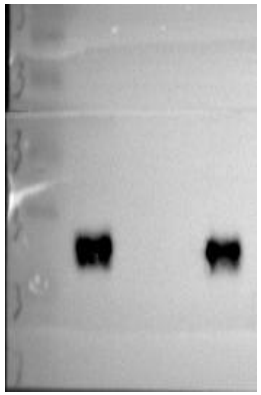


Figure 8D-8F

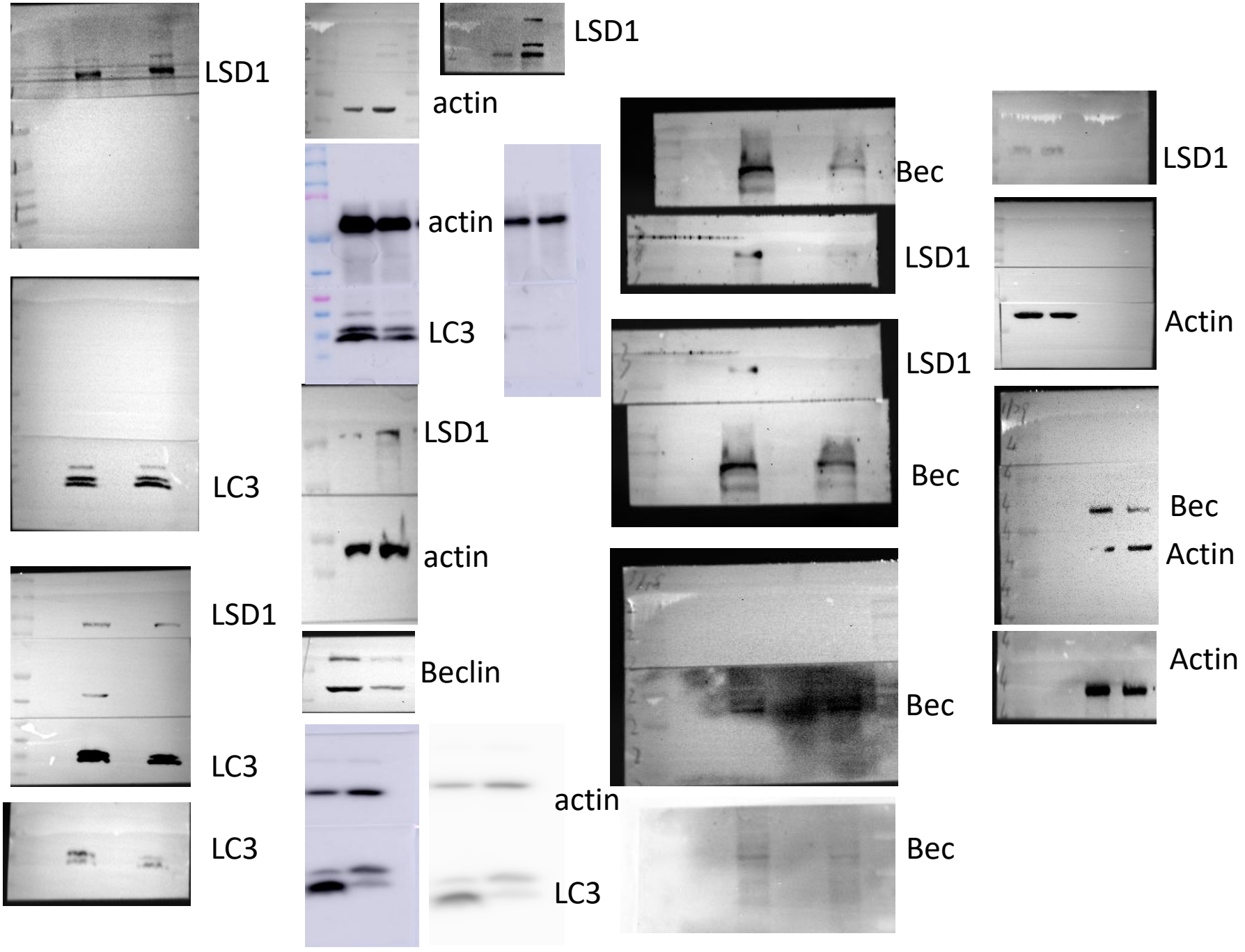
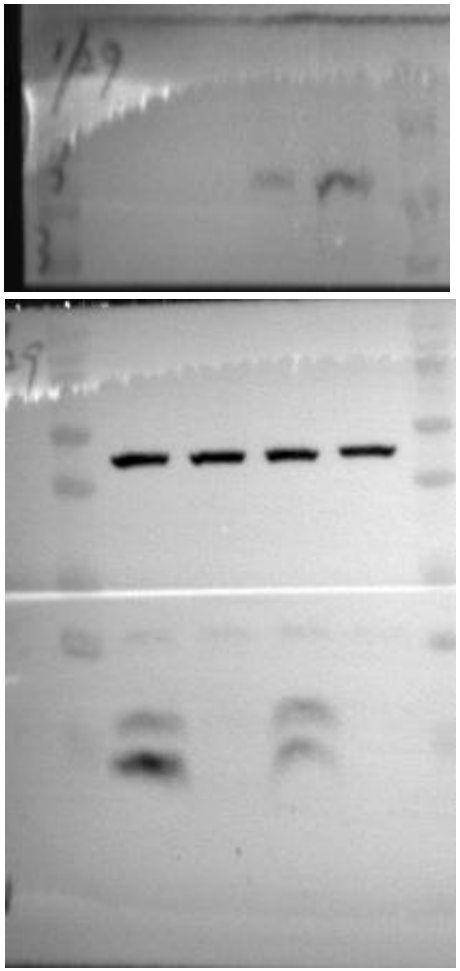
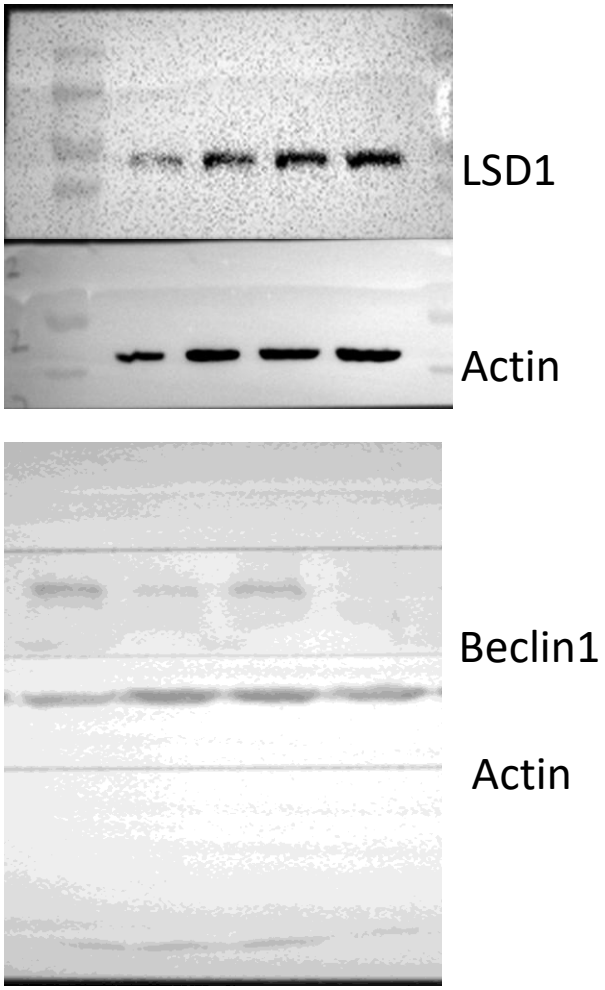
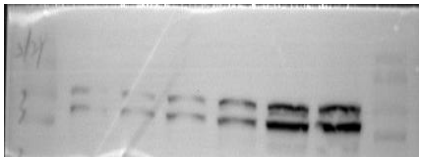

LSD1
LC3
LSD1
LC3
LC3
actin
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Bec
Actin
Actin

Figure 8G-8H

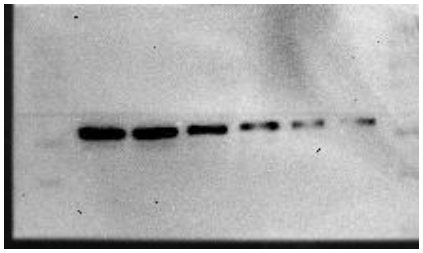




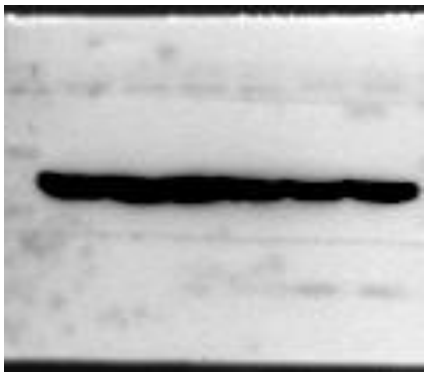
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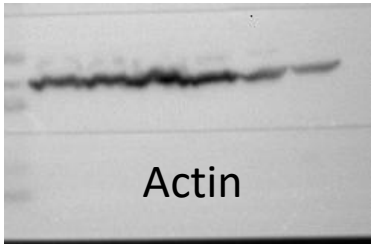


CyclinD

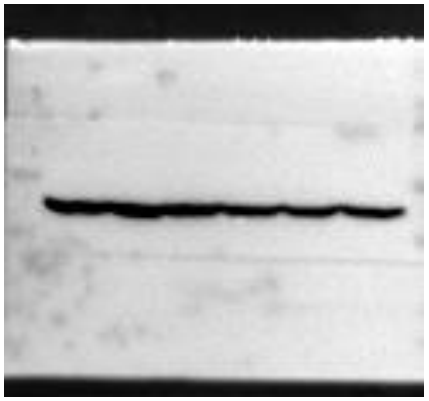


Actin

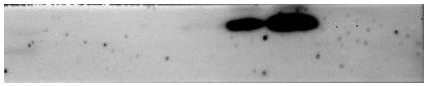
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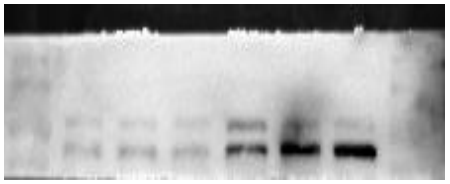
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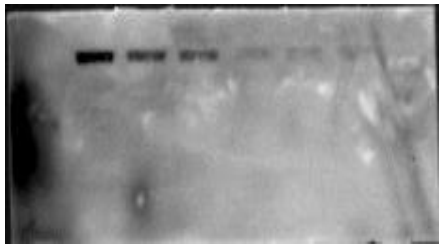
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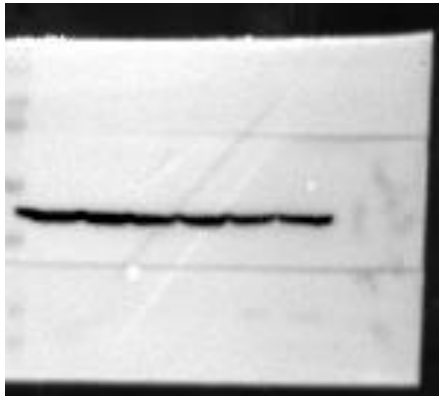
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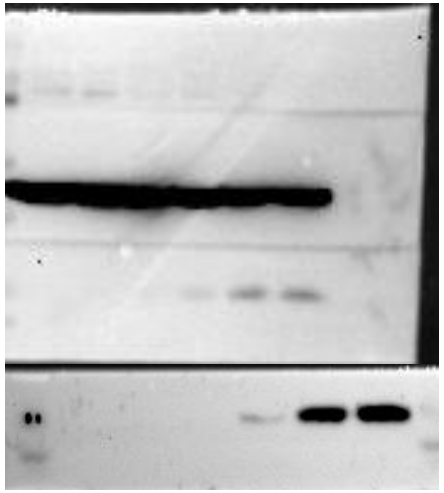
LSD1



CyclinD



Actin

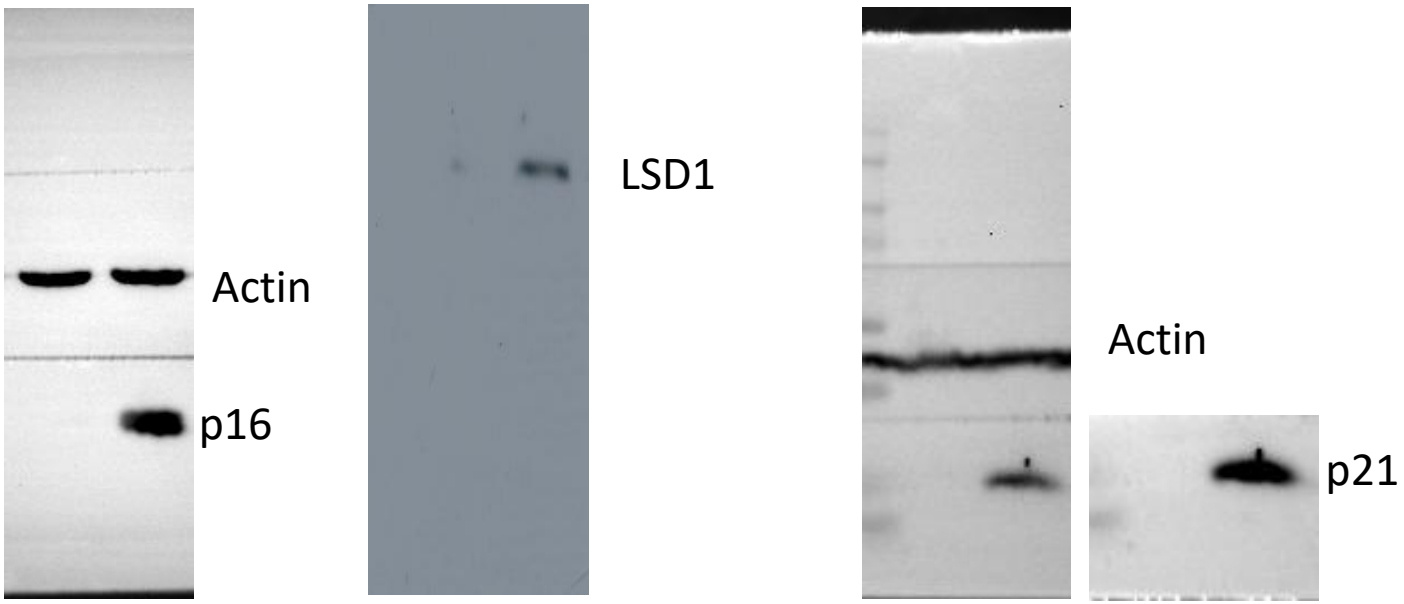


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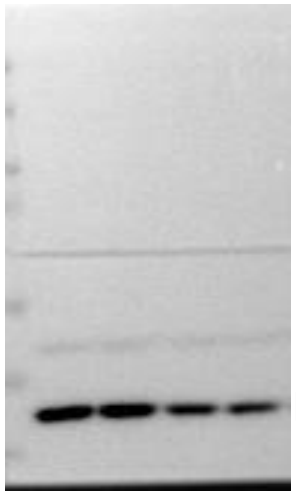
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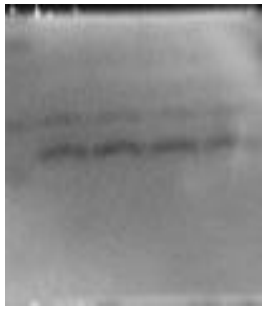
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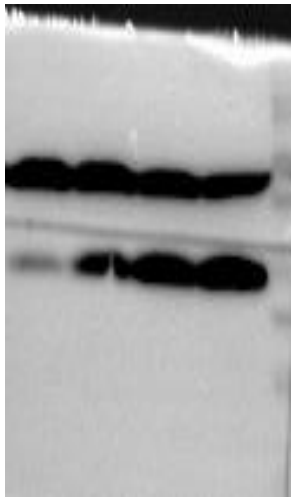
Sup Figure 3B



PCNA

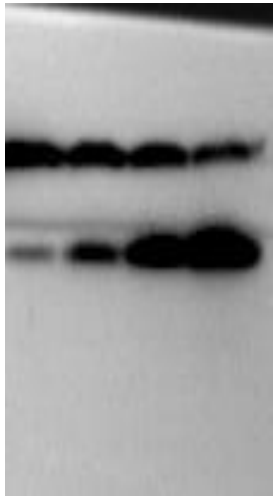


Cleaved
Caspas3



Actin

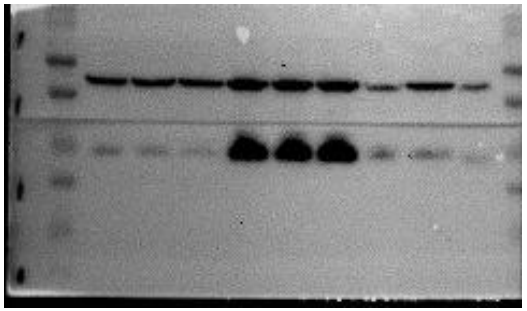
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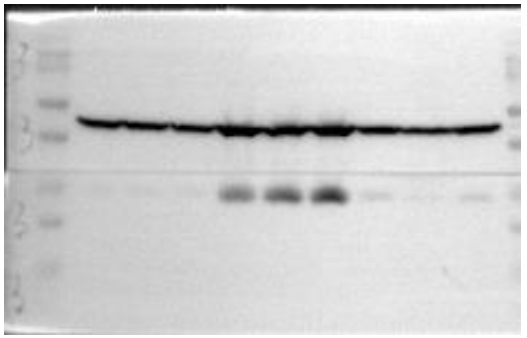


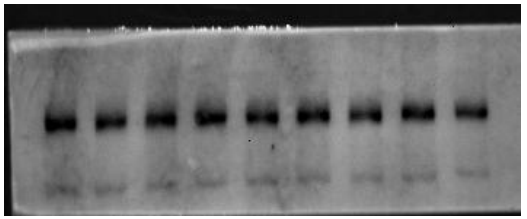
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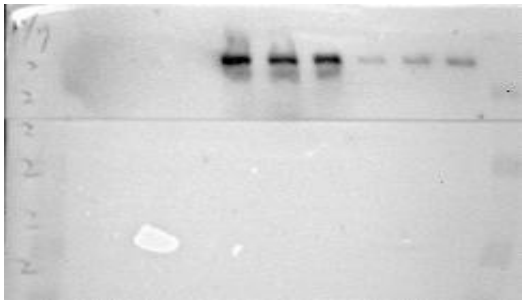
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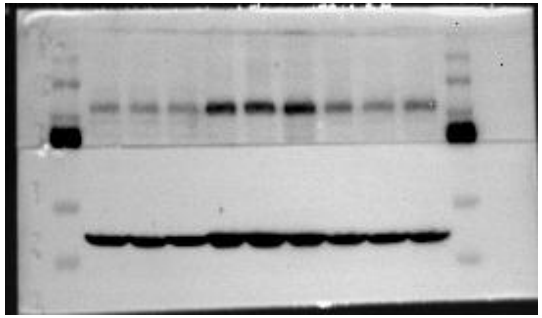
Supplementary Figure 4F (kidney)

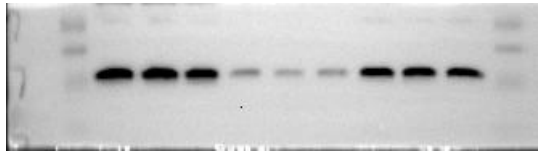






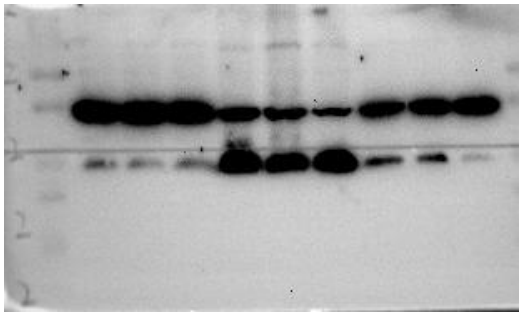


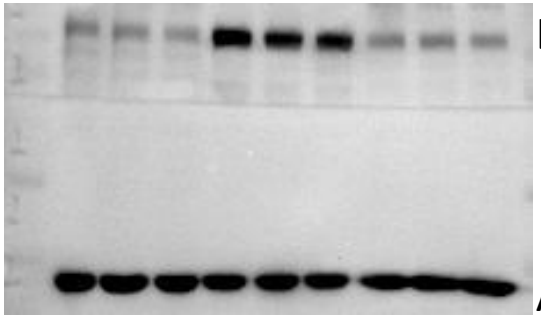


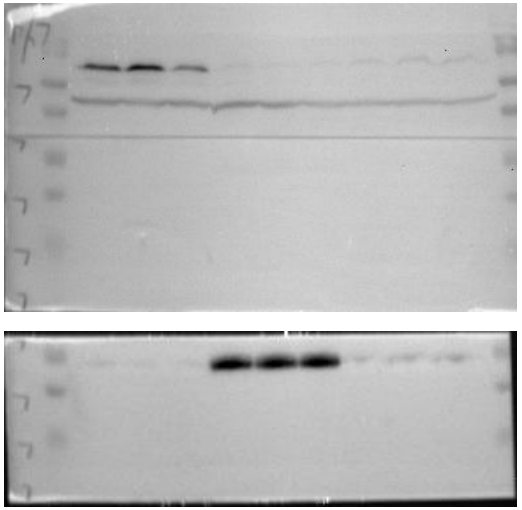


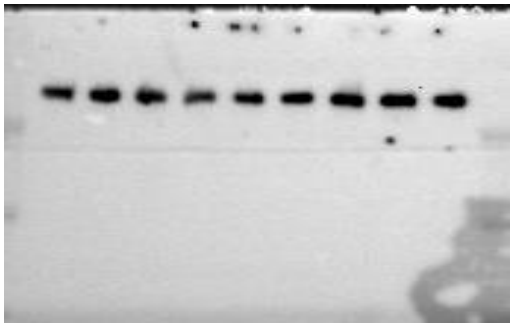


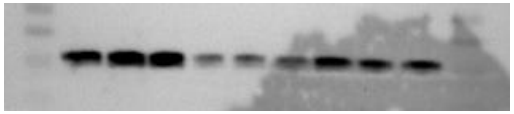
Supplementary Figure 4F (heart)

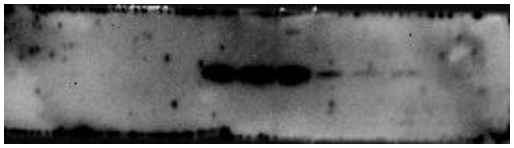


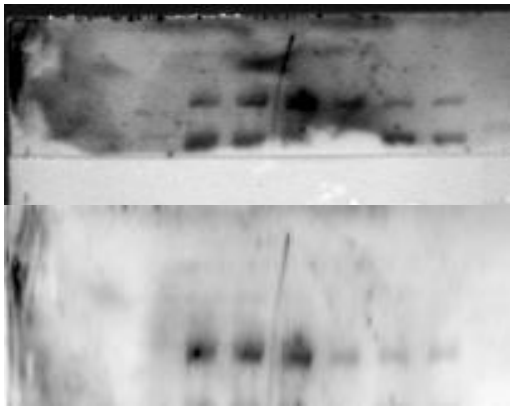




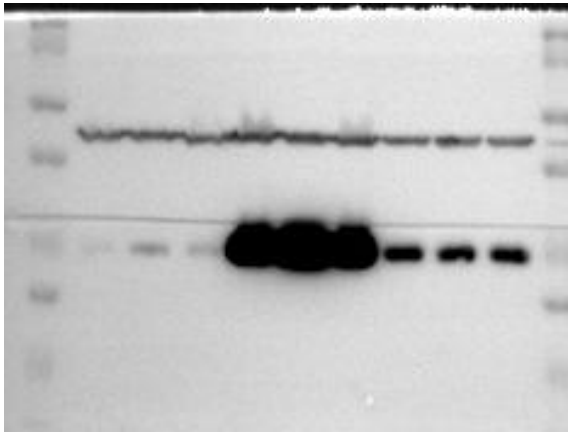


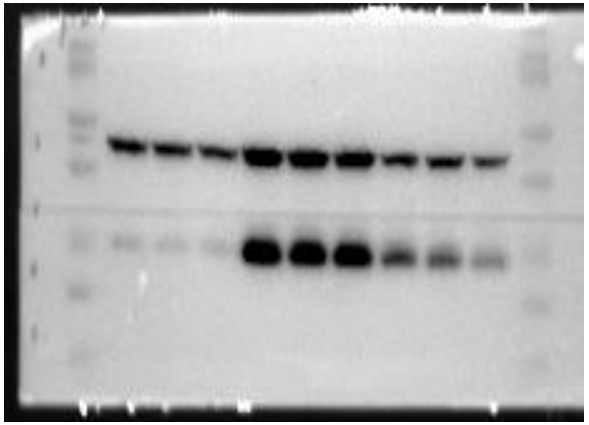


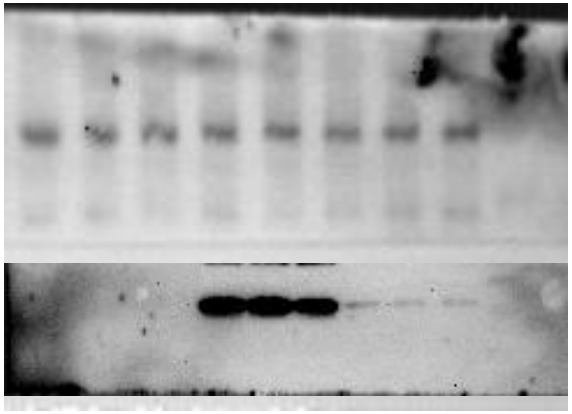


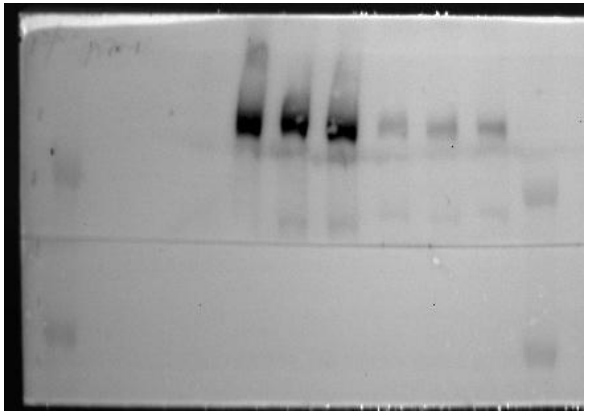


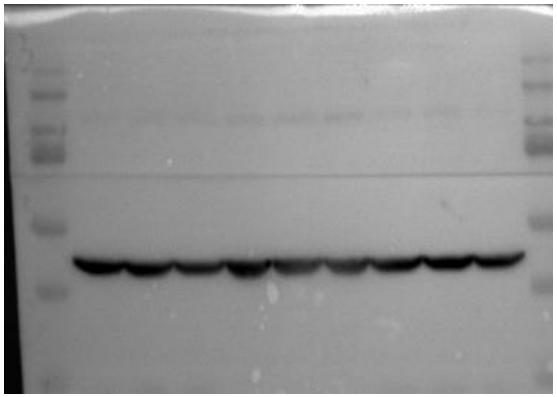
Supplementary Figure 4F (liver)

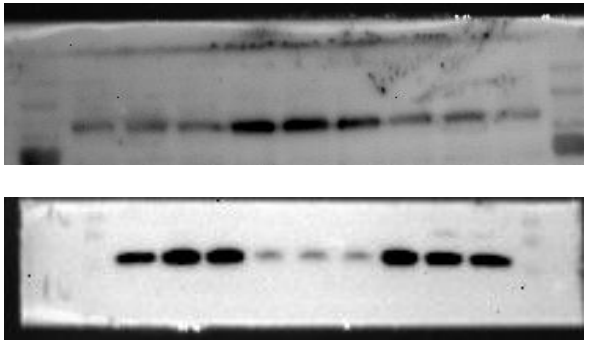




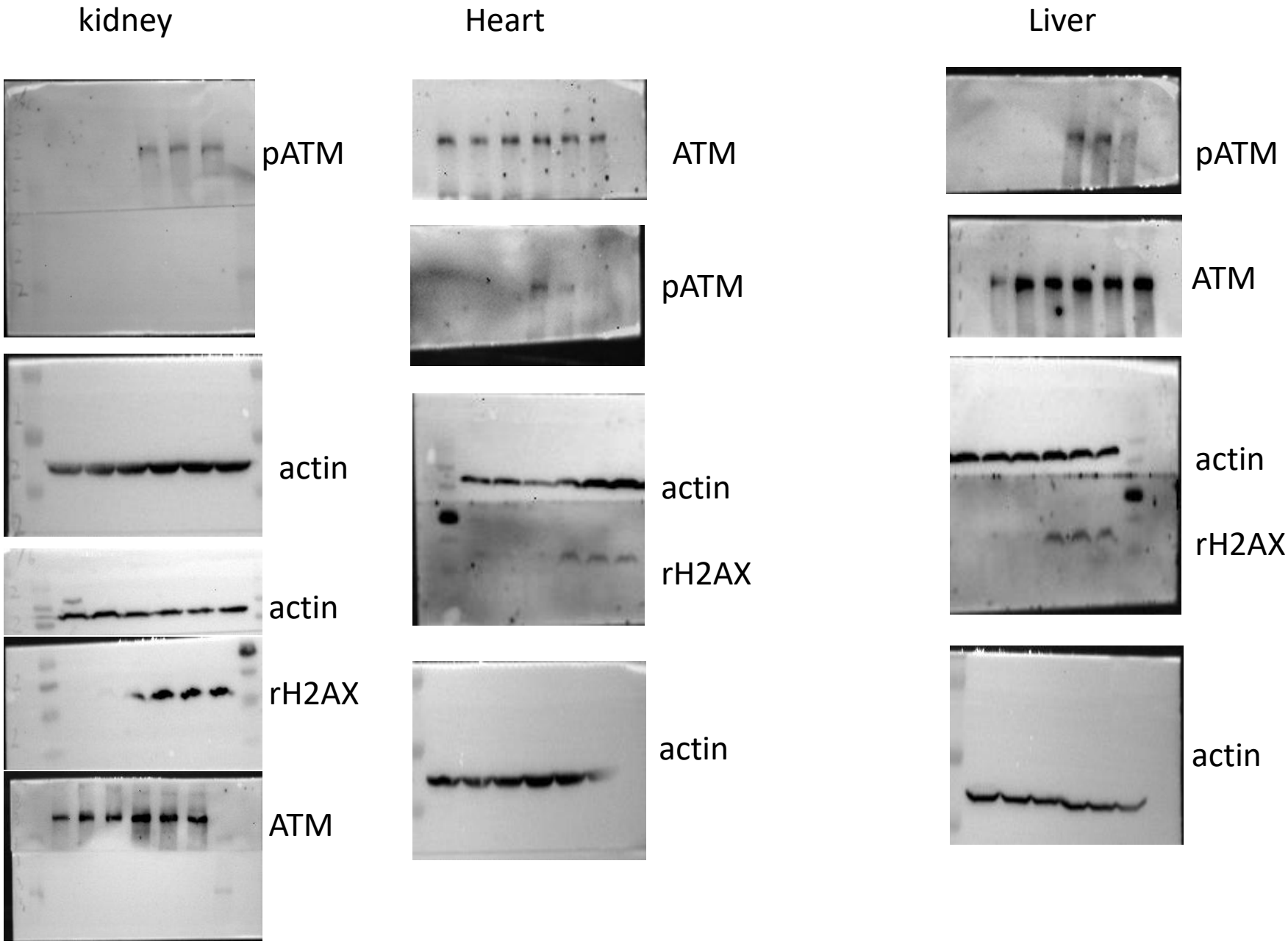




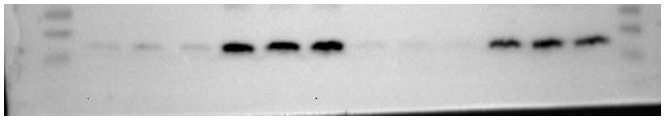




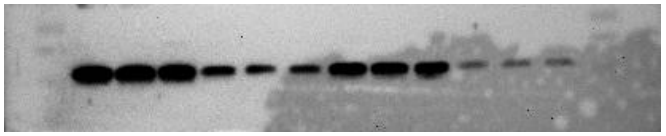
Sup Figure 5A



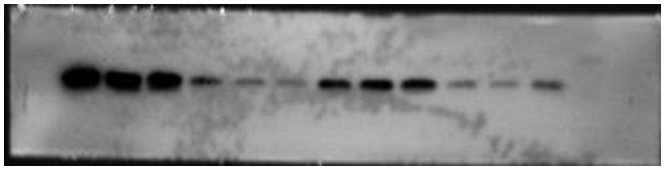
Sup Figure 5A



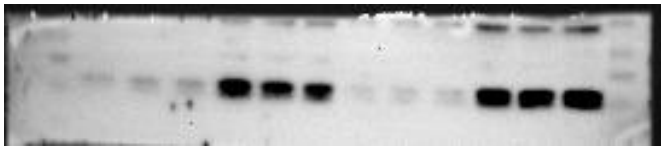
H3K9me1



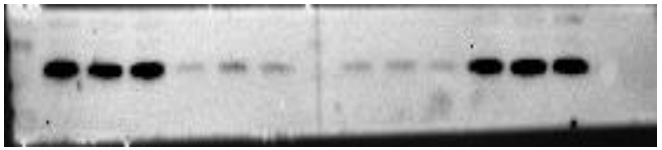
H3K4me2



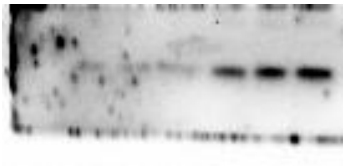
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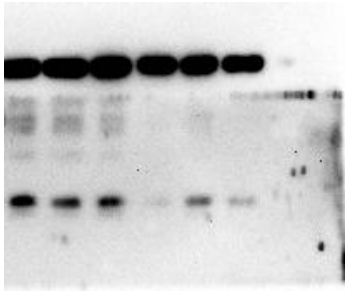
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H3K9me2 H3K4me1



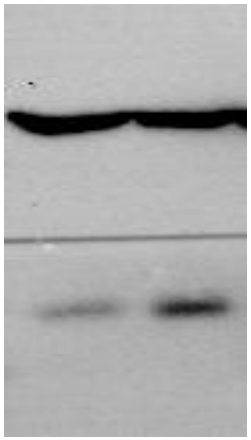
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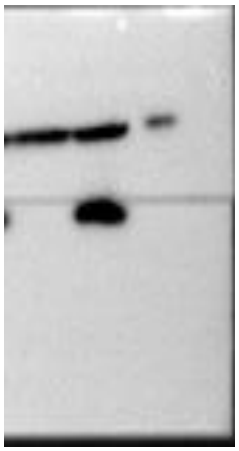


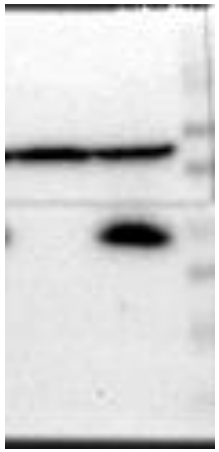
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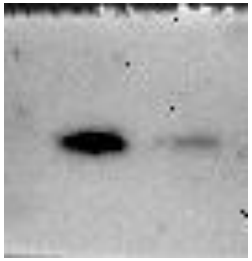
Sup Figure 5B

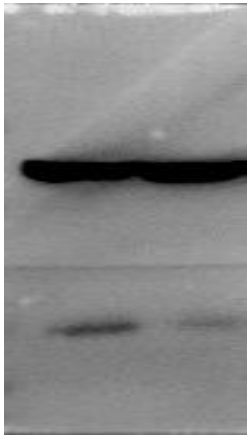


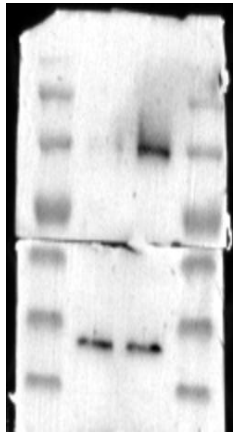




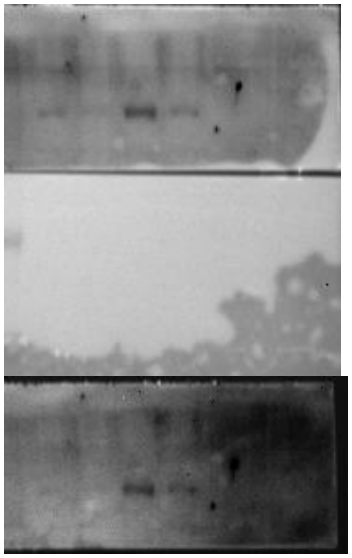






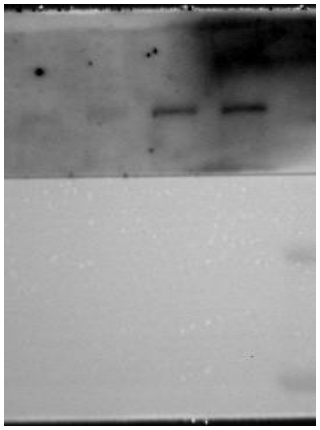


Sup Figure 6

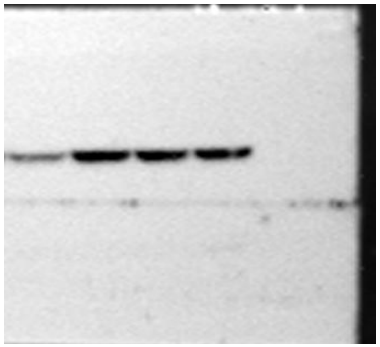


kATM

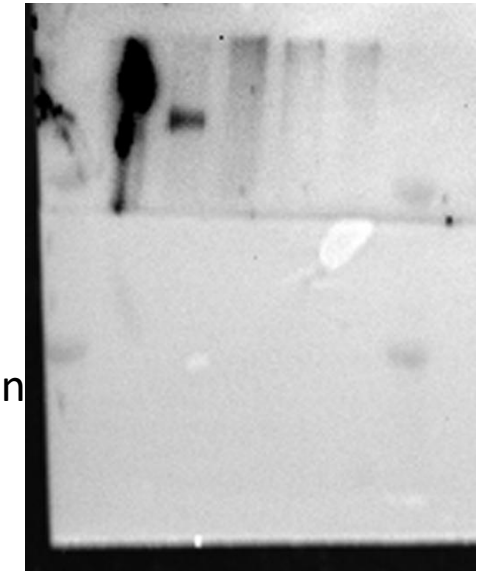
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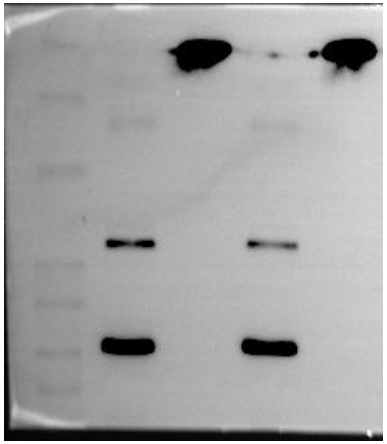
ATM



actin

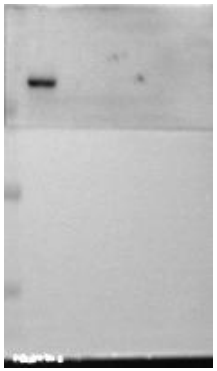


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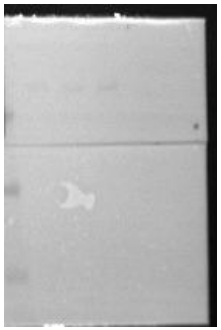


GFP

Sup Figure 7

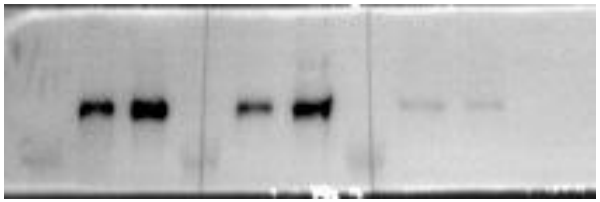


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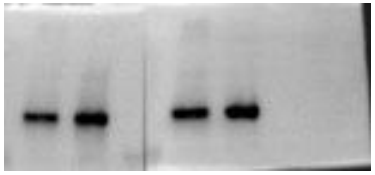




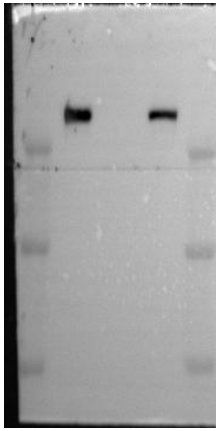
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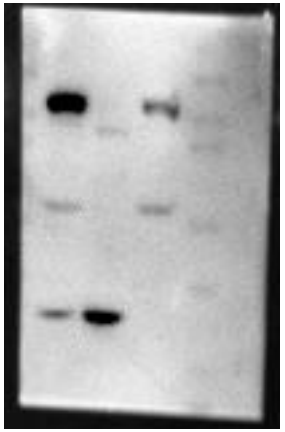
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ATMK3016

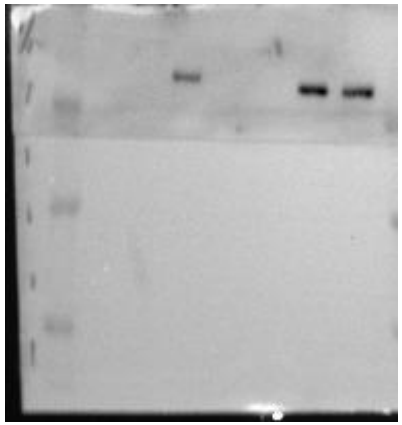


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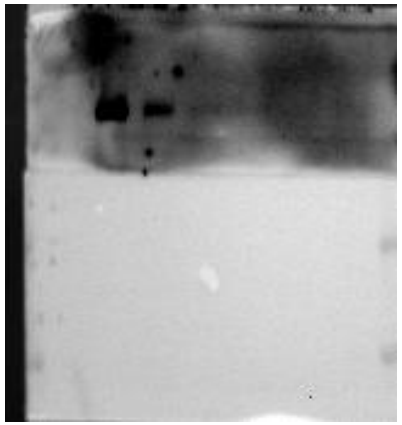


LSD1

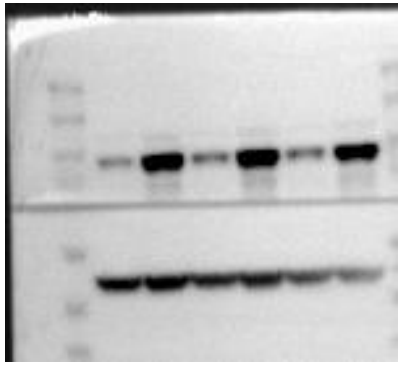
Sup Figure 8A



Pan-ac

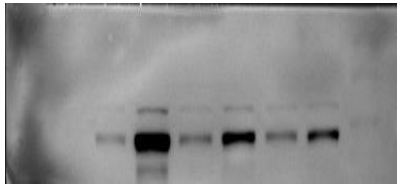


Pan-methy

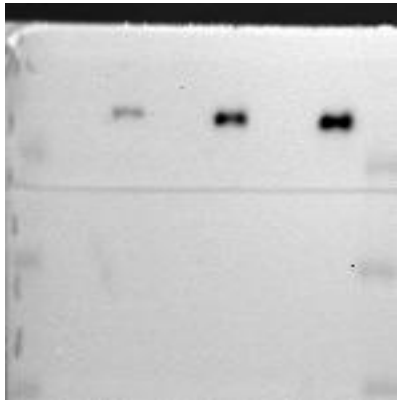


WIP1

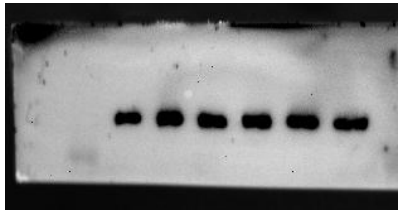
Actin



WIP1

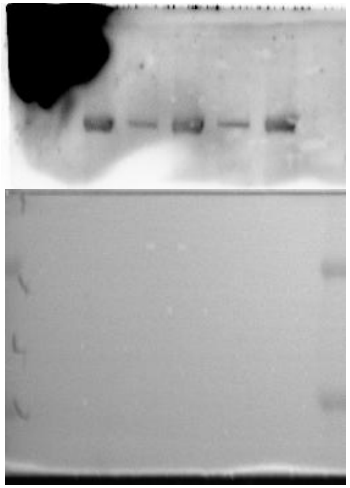


pATM

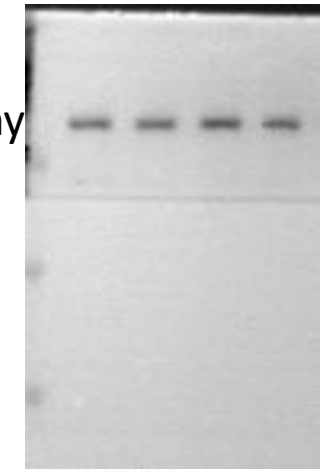


Flag

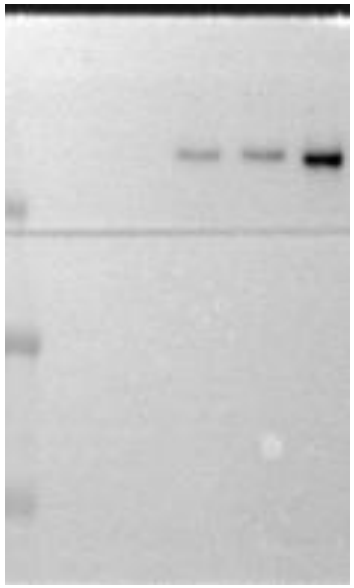
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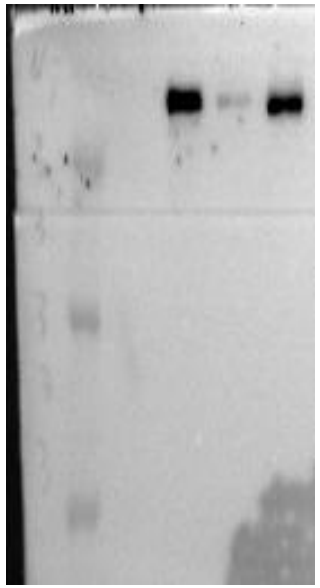
Pan-methy



ATM



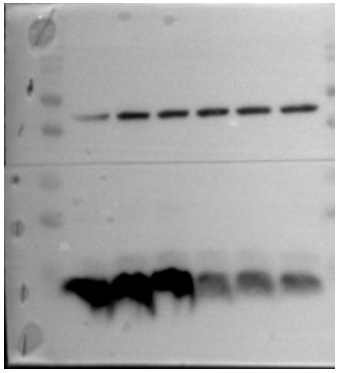
Pan-ac



pATM

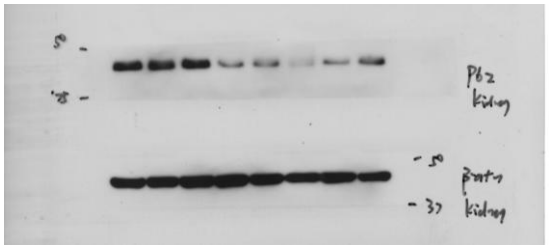
Sup Figure 9A

kidney

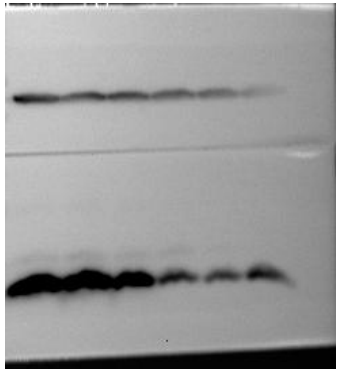


actin

LC3

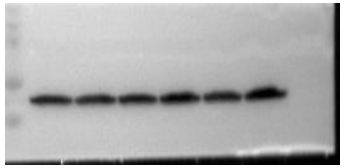


Heart

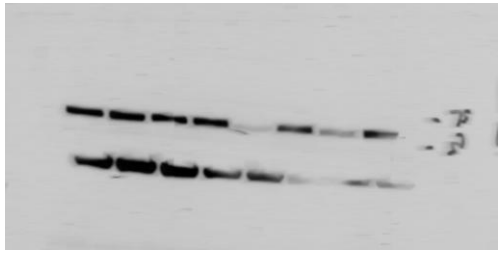


actin

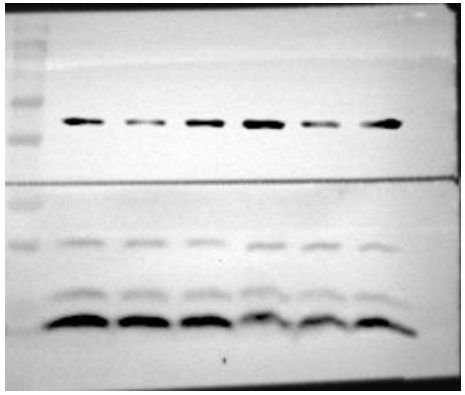
LC3



actin

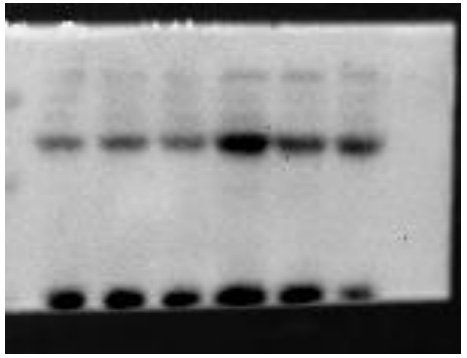


Liver

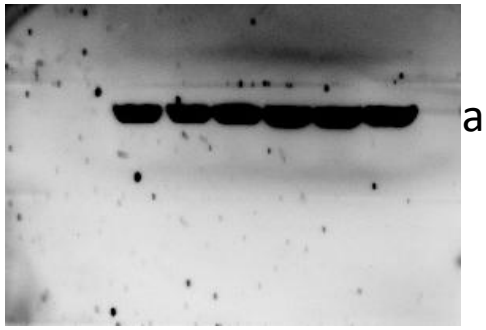


actin

LC3



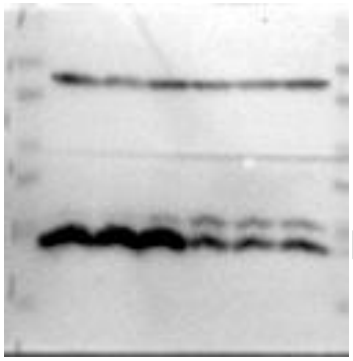
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actin

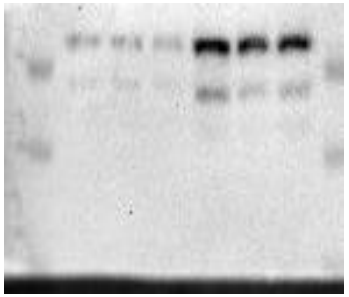
Sup Figure 9B

kidney

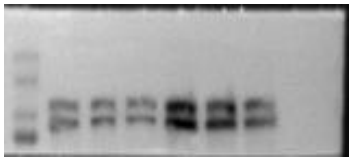


actin

LC3

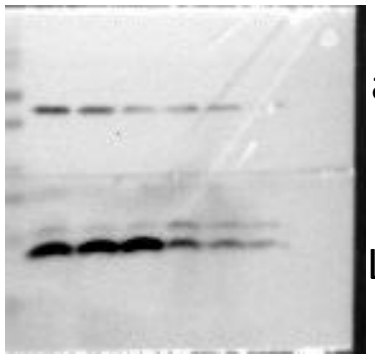


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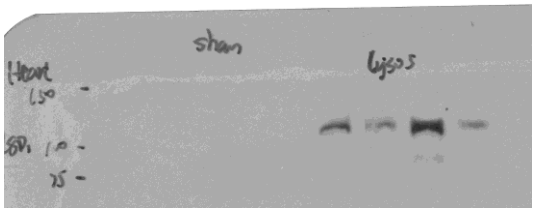
LSD1

Heart

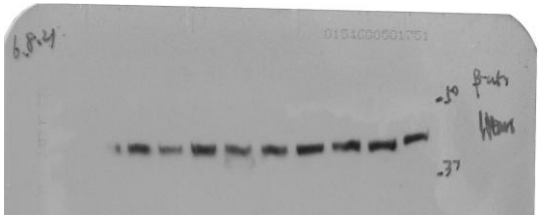


actin

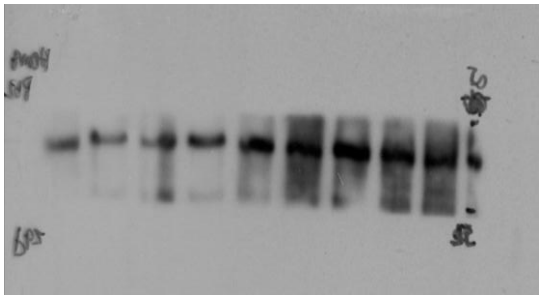
LC3



LSD1

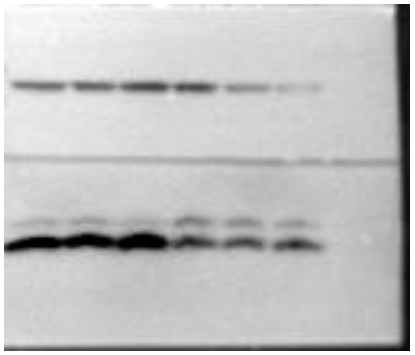


actin



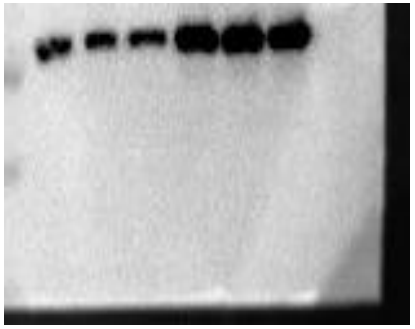
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Liver

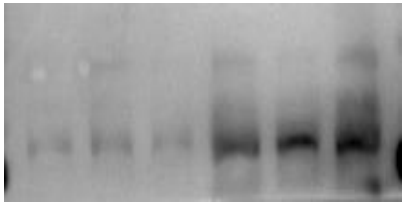


actin

LC3



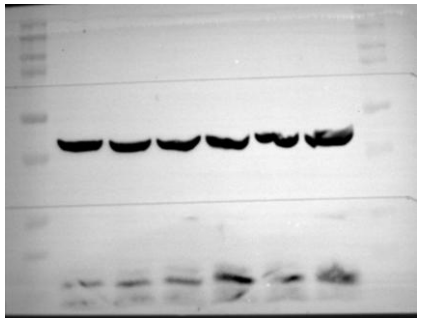
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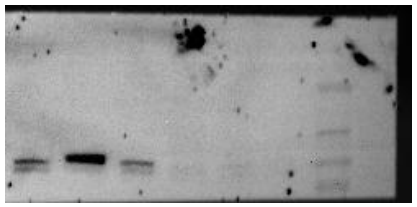


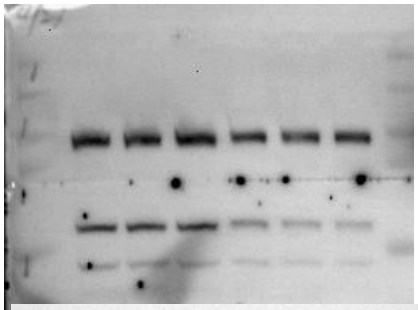
LSD1

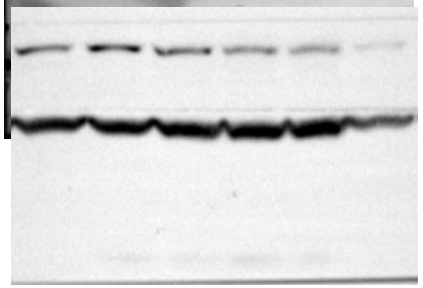
Sup Figure 9D

kidney

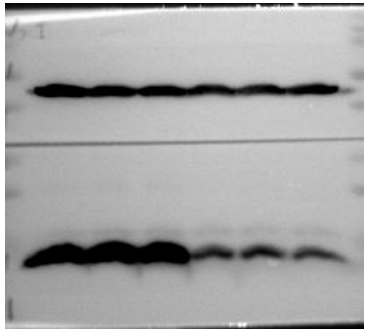


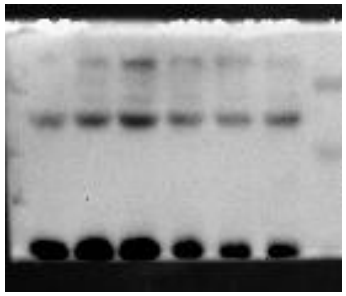


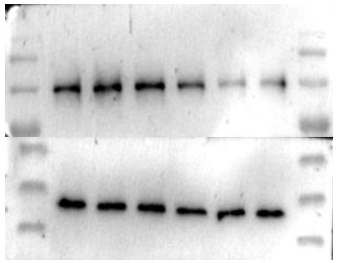




Heart







Liver



