

Uncropped/ Unedited Gel and Blot Images

Co-opting a visual cycle protein to track retinoid
transport within the neural retina

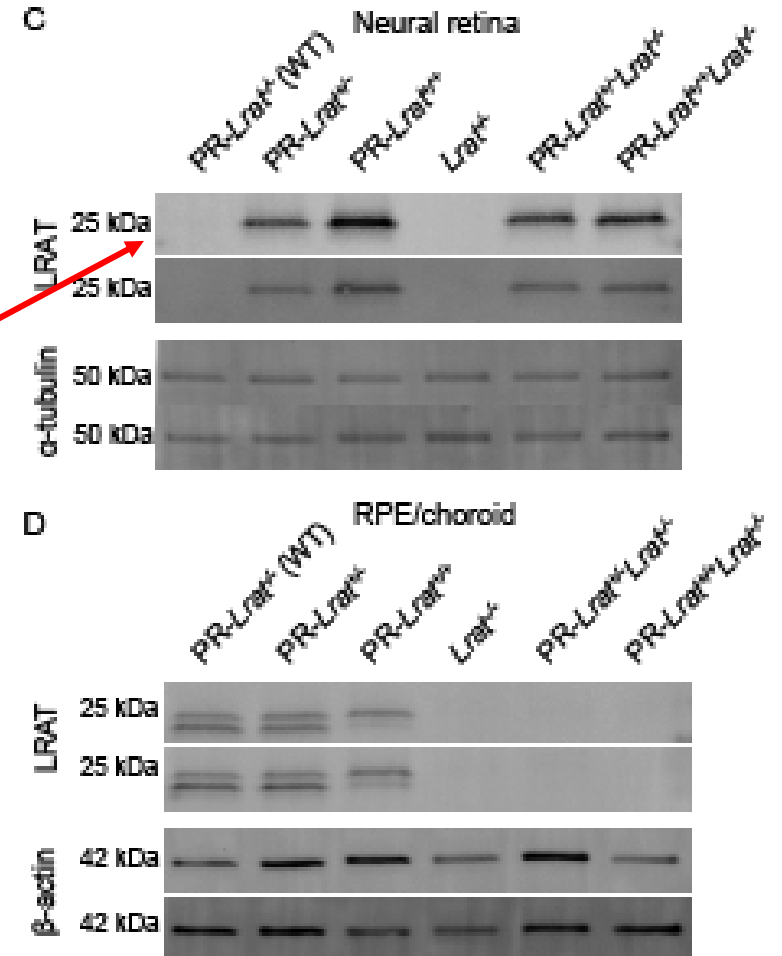
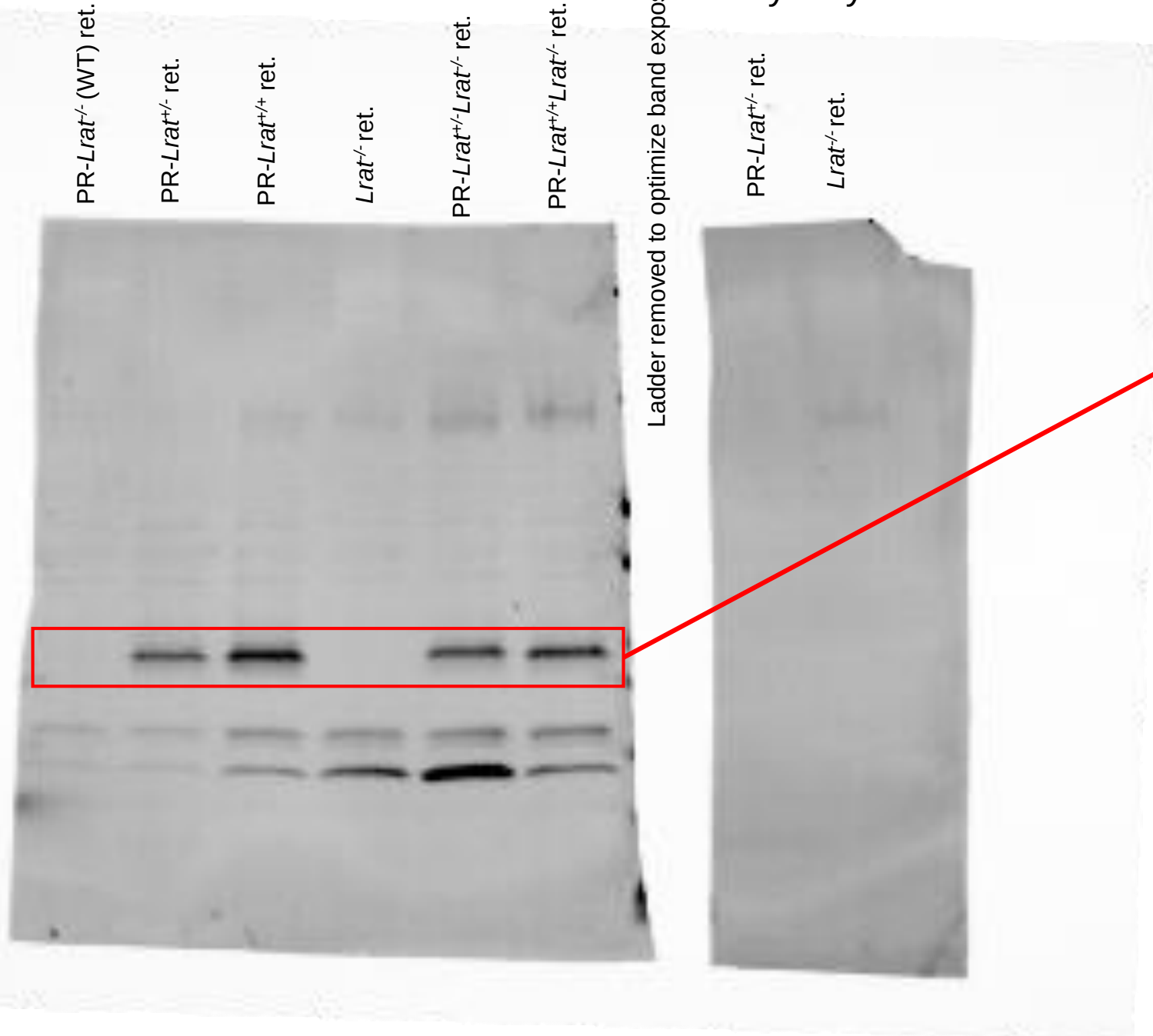
Zachary J. Engfer, Grazyna Palczewska, Samuel W. Du, Jianye
Zhang, Zhiqian Dong, Caroline Rodrigues Menezes, Jun Wang,
Jianming Shao, Budd A Tucker, Robert F. Mullins, Rui Chen,
Philip D. Kiser, Krzysztof Palczewski

Figure 2 Panel C

Anti-LRAT primary + secondary

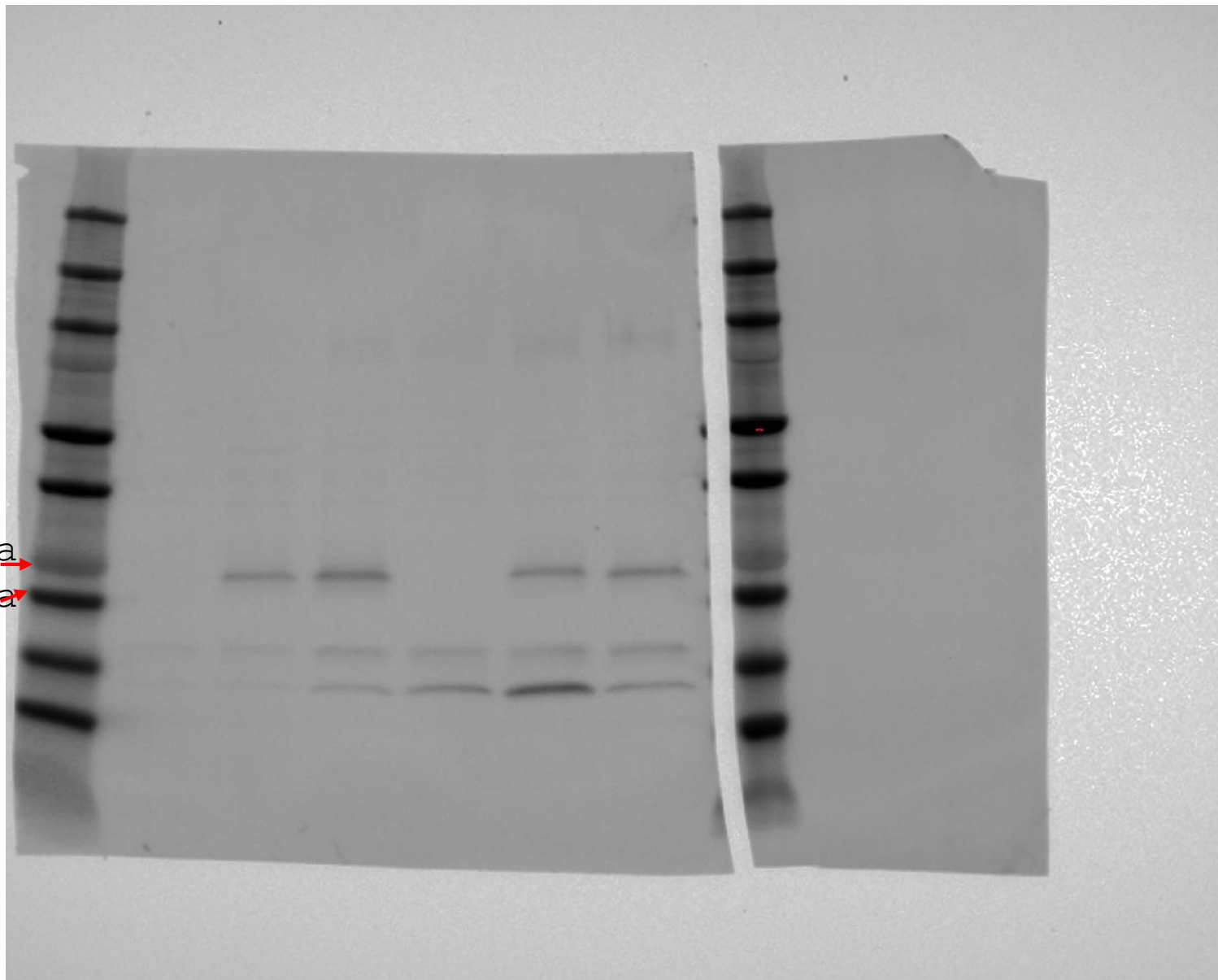
2ary only controls

As in Figure 2 Panel C:



*See same blot w/ ladder on next page

25 kDa →
20 kDa →



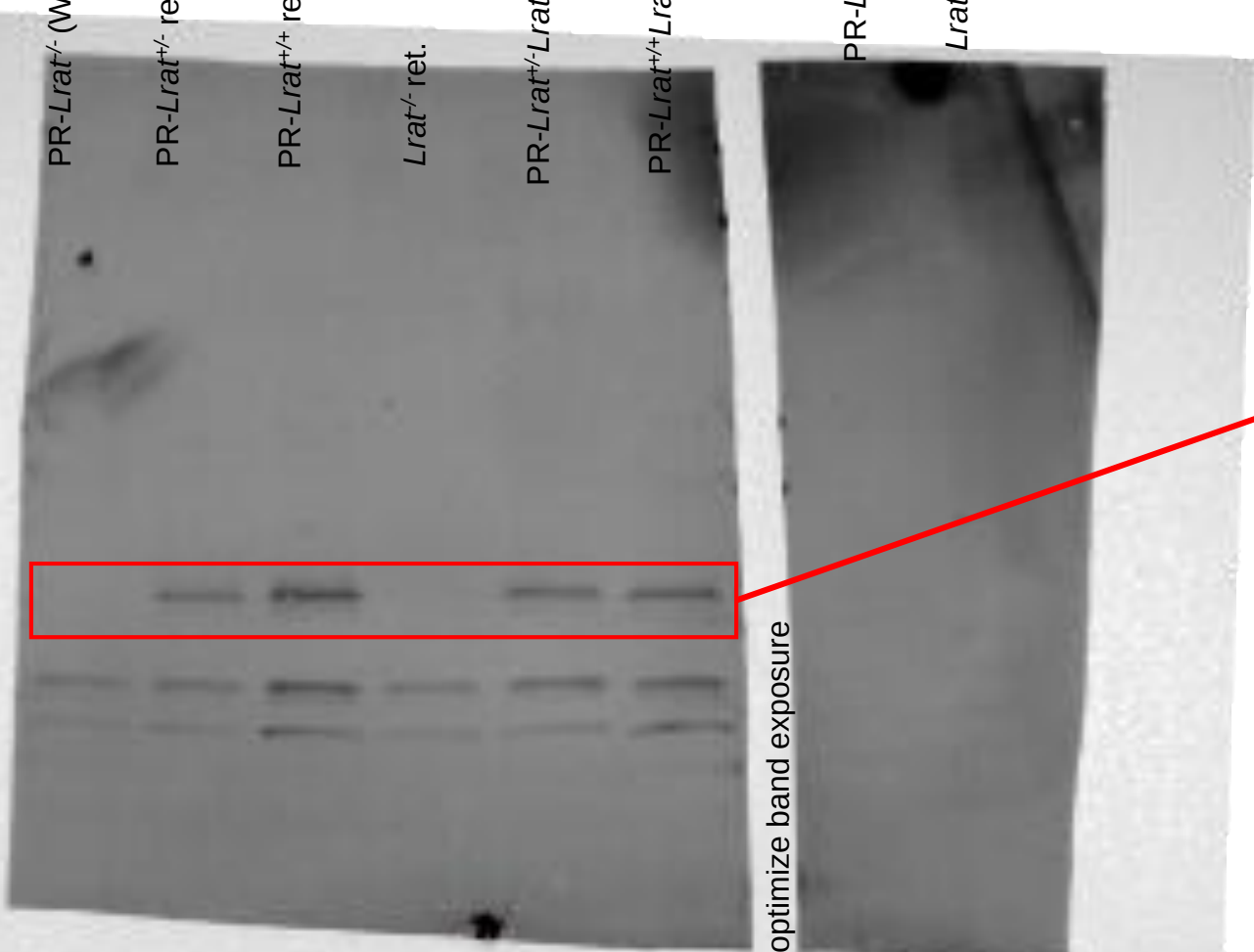
Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))

Anti-LRAT primary + secondary

2ary only controls

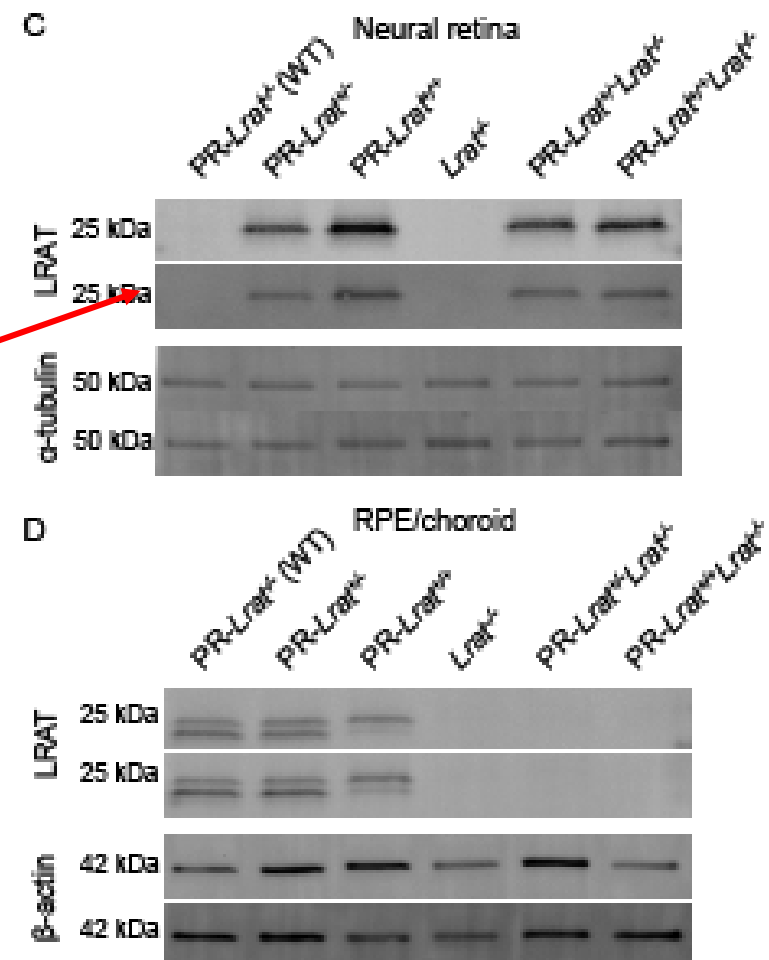
PR-Lrat^{-/-} (WT) ret.
PR-Lrat^{+/-} ret.
PR-Lrat^{+/+} ret.
Lrat^{-/-} ret.
PR-Lrat^{+/-}Lrat^{-/-} ret.
PR-Lrat^{+/+}Lrat^{-/-} ret.

PR-Lrat^{+/-} ret.
Lrat^{-/-} ret.

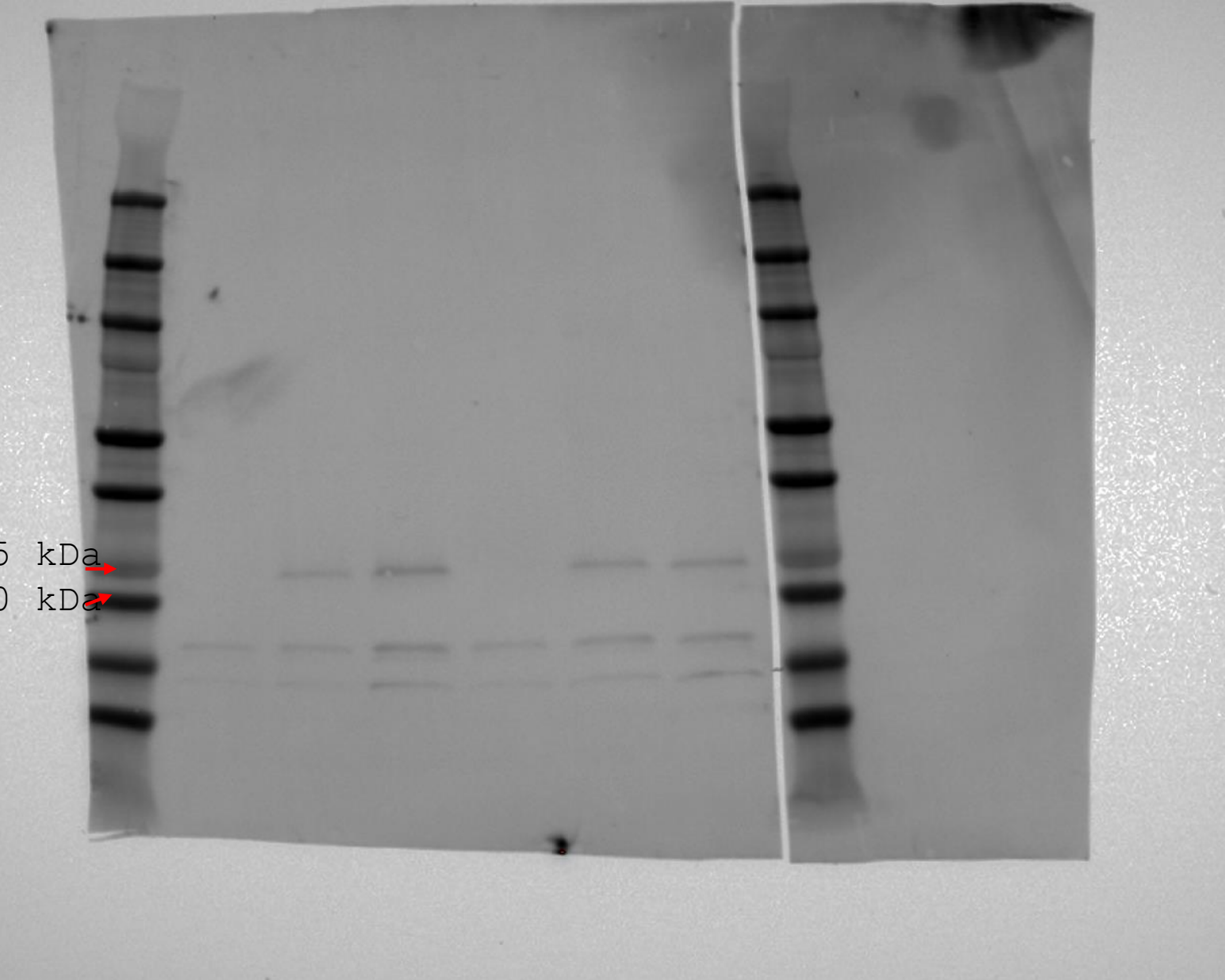


Ladder removed to optimize band exposure

As in Figure 2 Panel C:



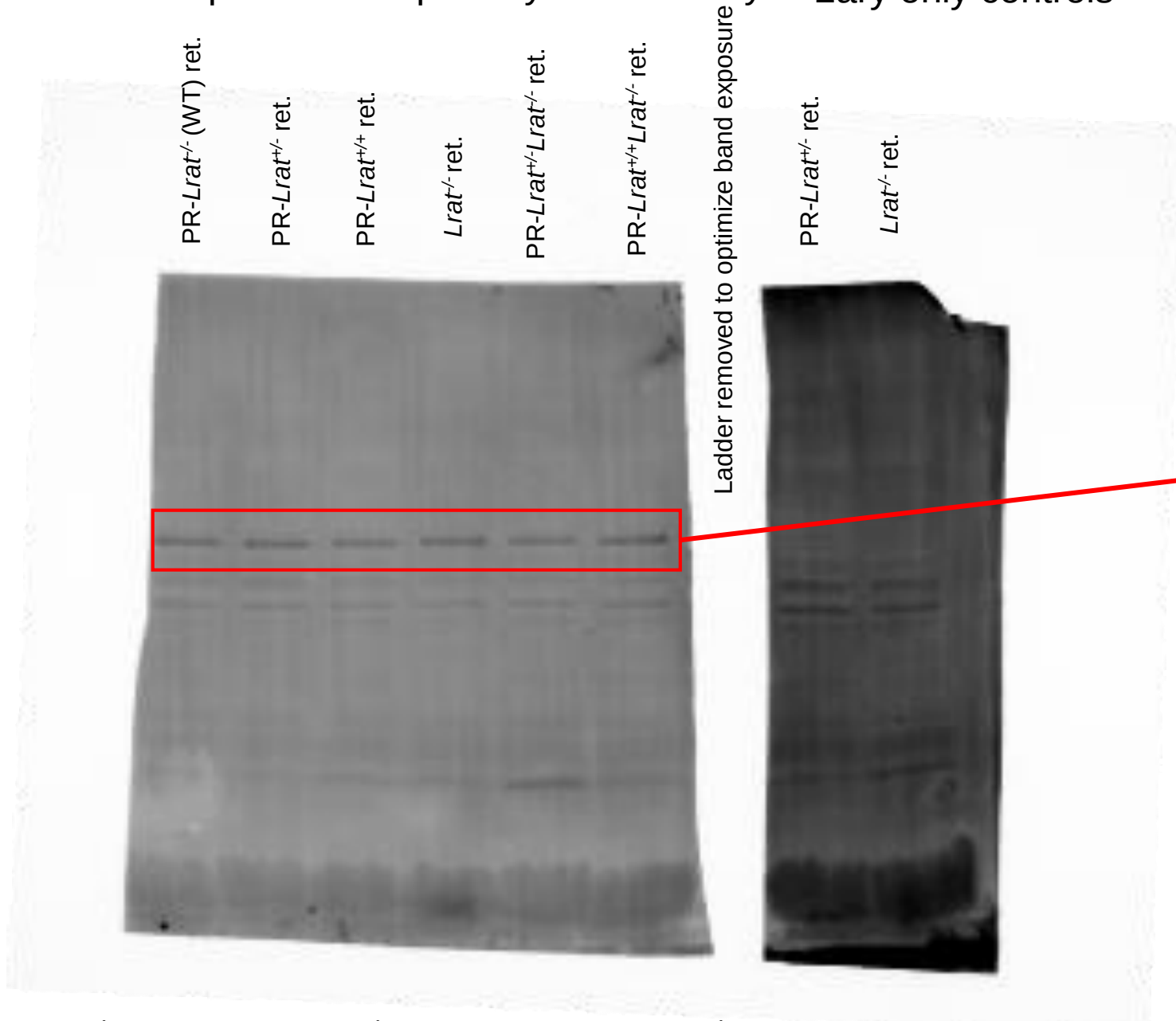
*See same blot w/ ladder on n



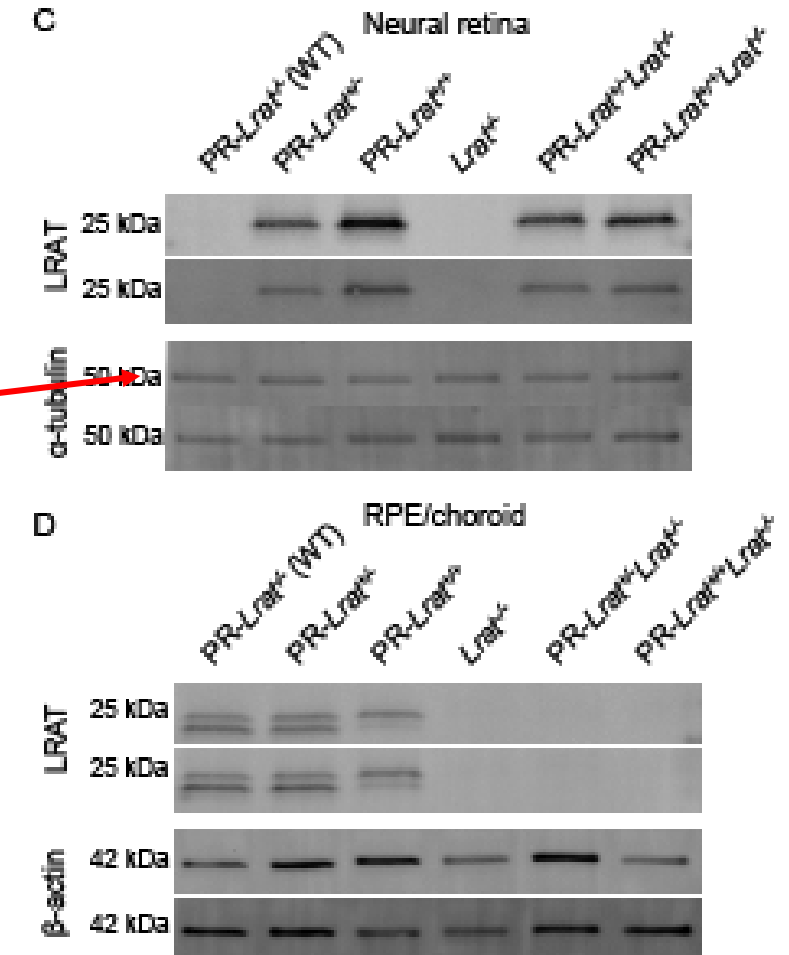
25 kDa
20 kDa

Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))

Anti-alpha tubulin primary + secondary 2ary only controls

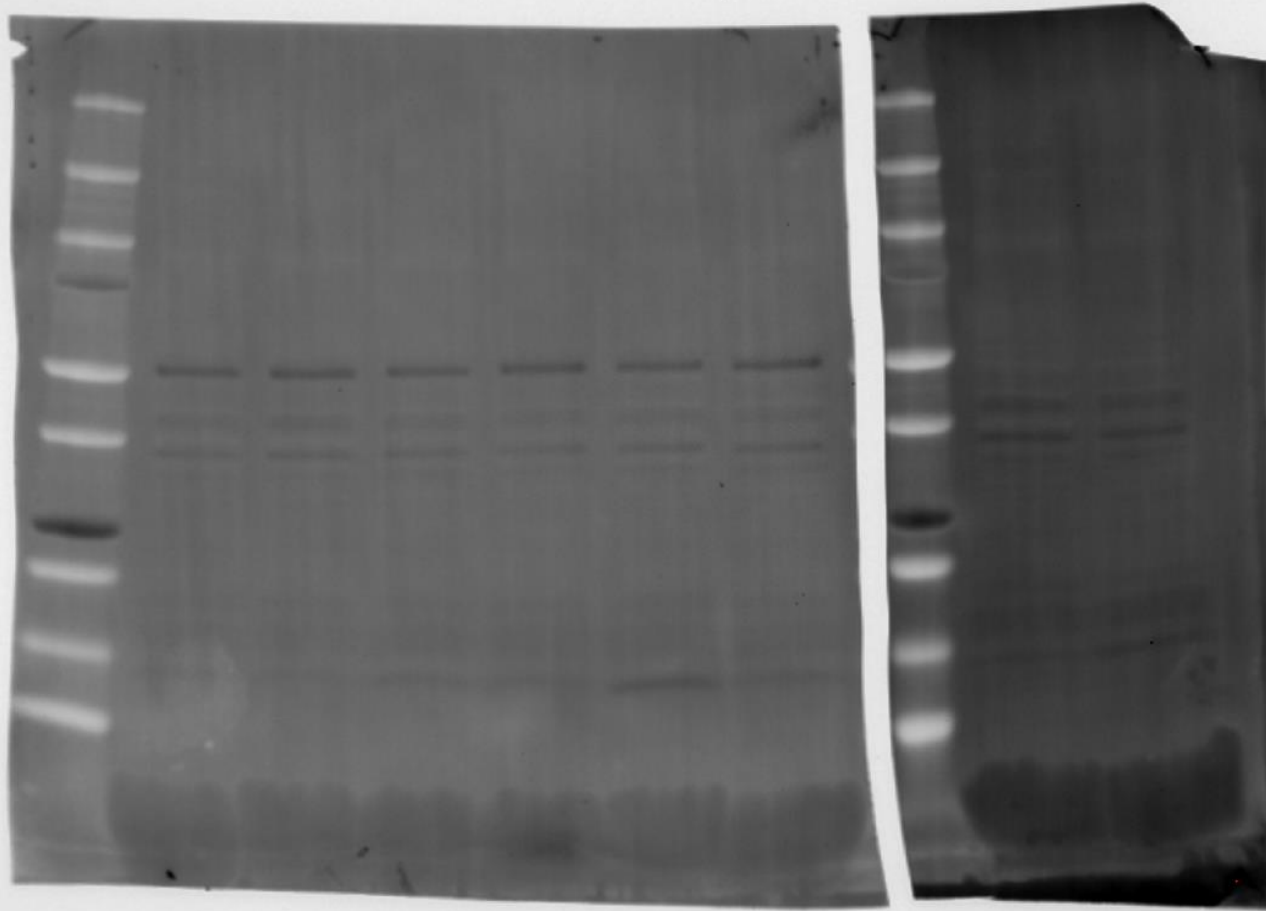


As in Figure 2 Panel C:

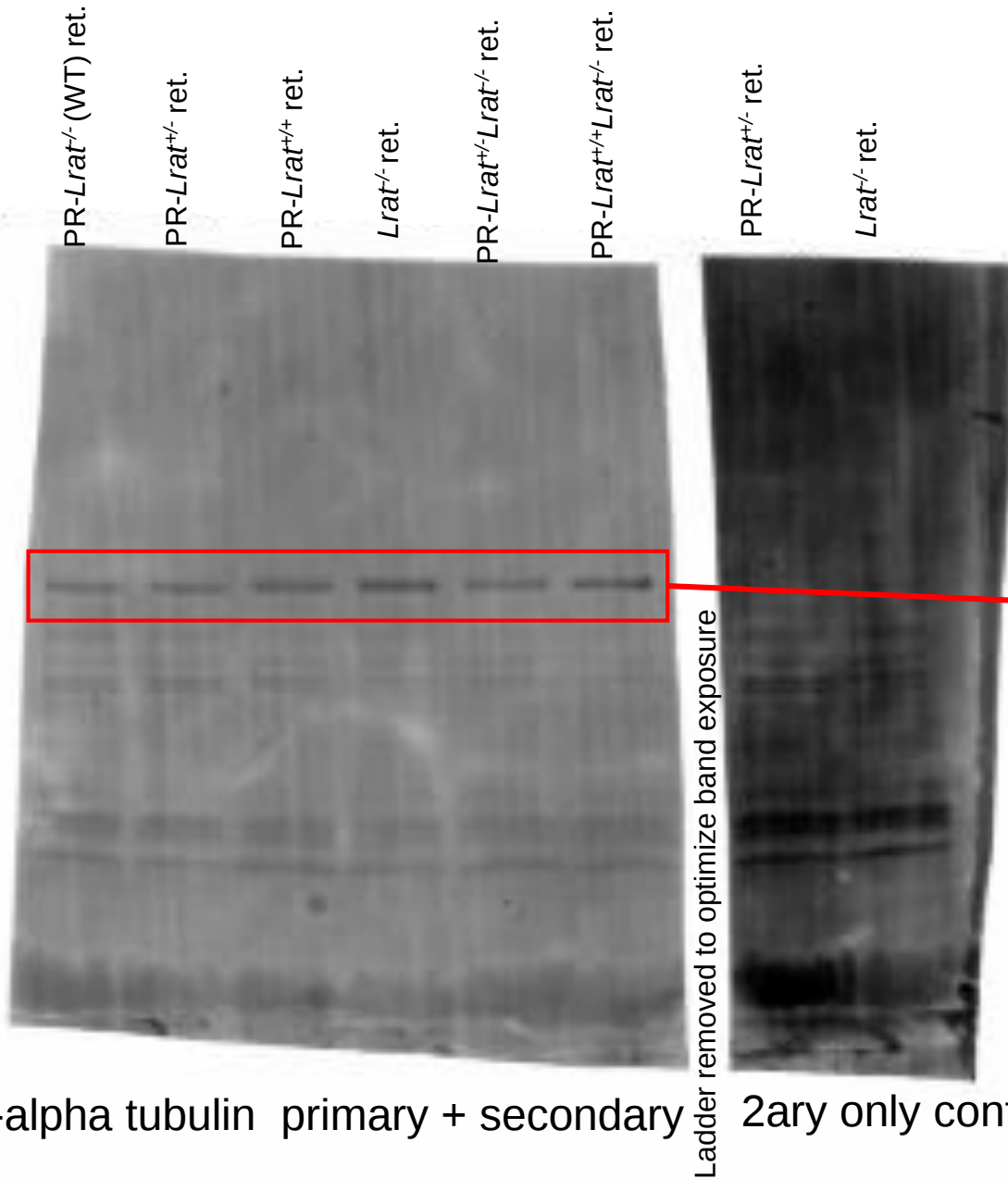


Different antibody host species, secondary, channel used for alpha tubulin; see same blot w/ ladder on n
; same blot as featured in slides 3 + 4 staining for anti LRAT.

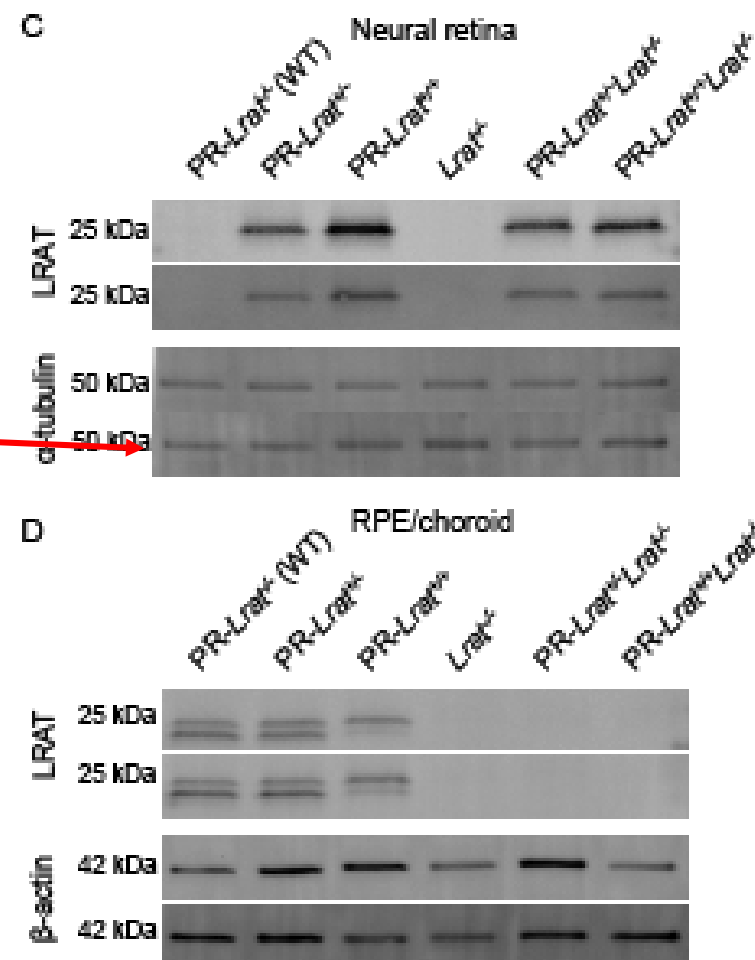
50 kDa



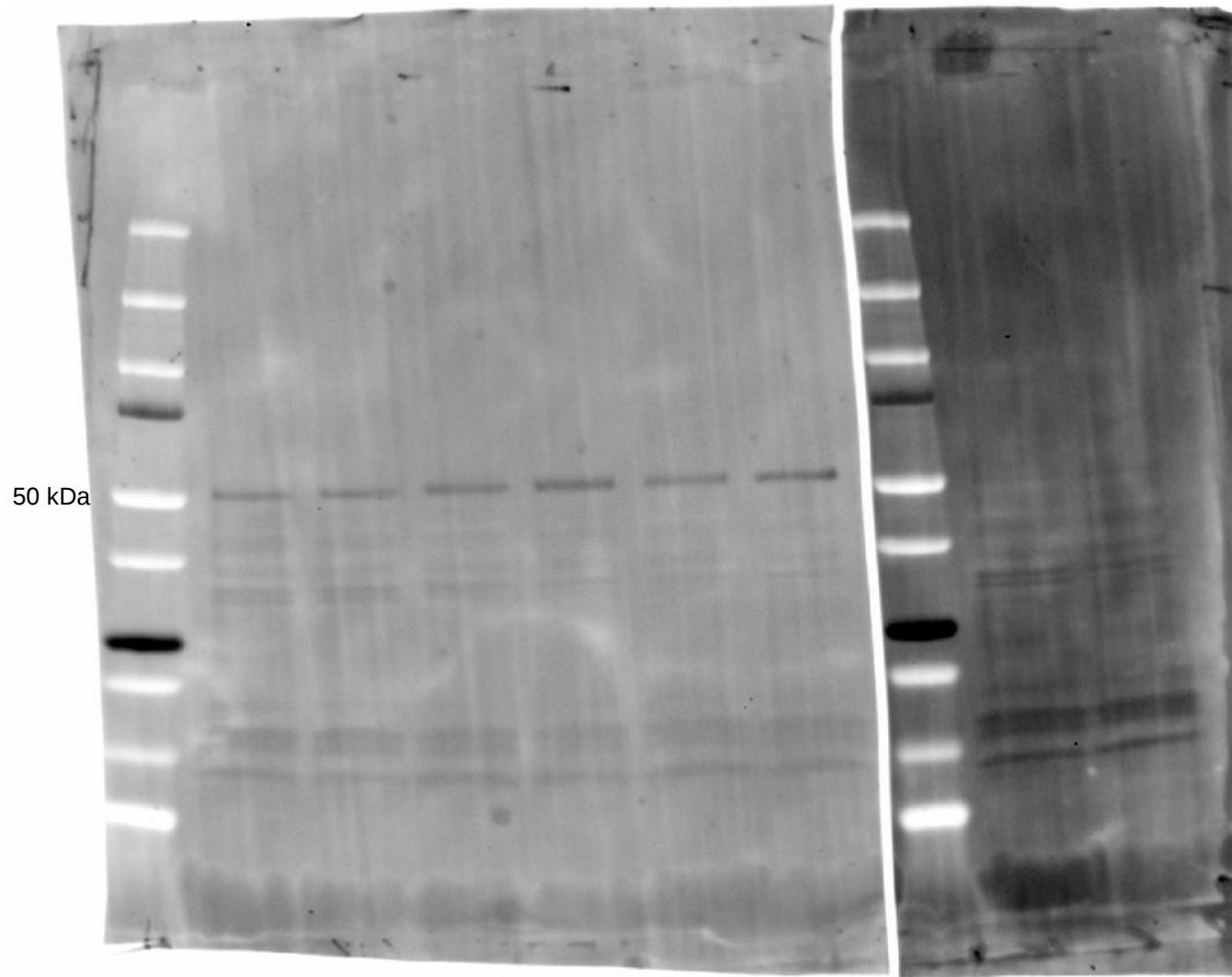
Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))



As in Figure 2 Panel C:

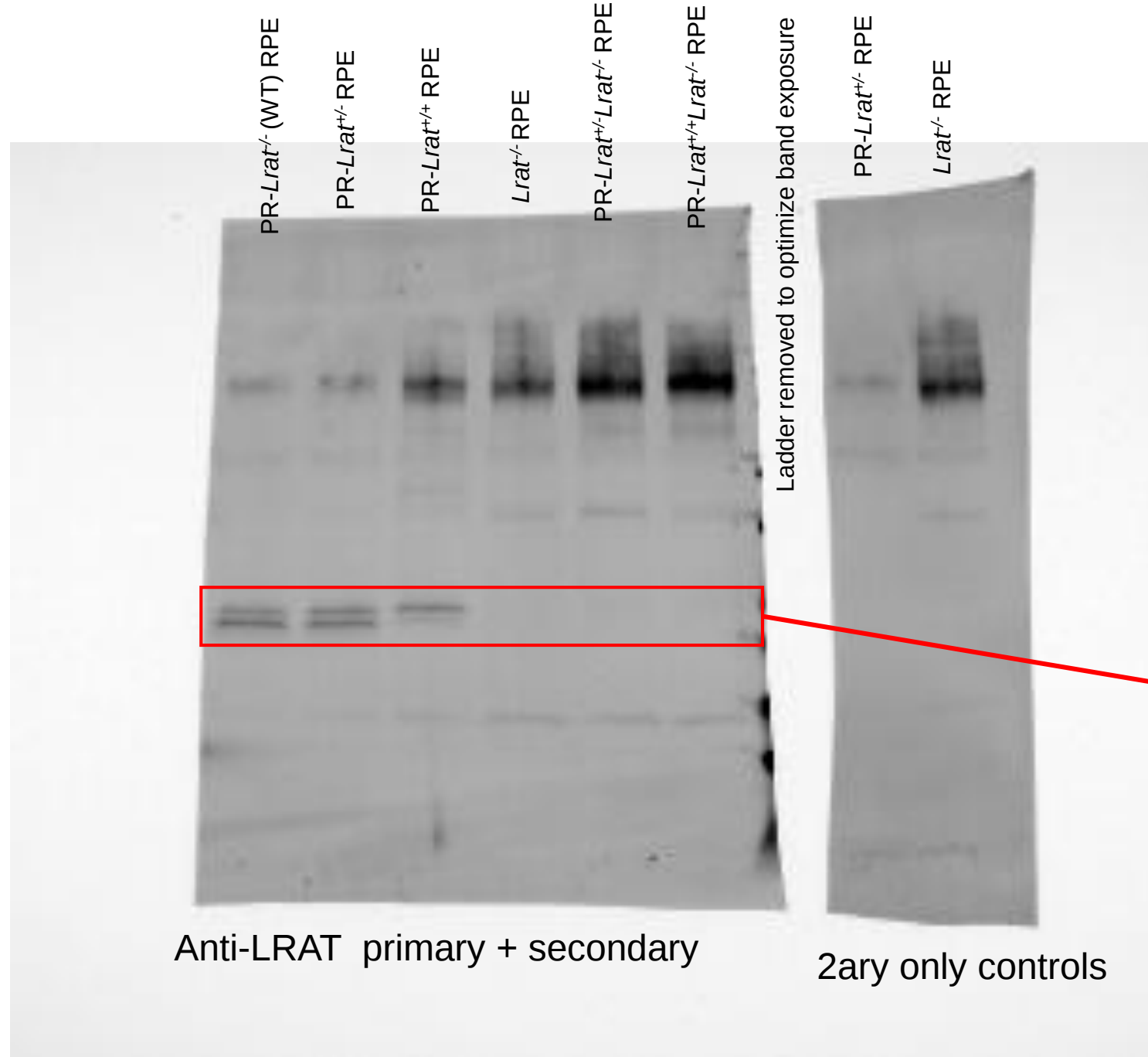


Different antibody host species, secondary, channel used for alpha tubulin; same blot as featured in slides 5 + 6 staining for anti LRAT.

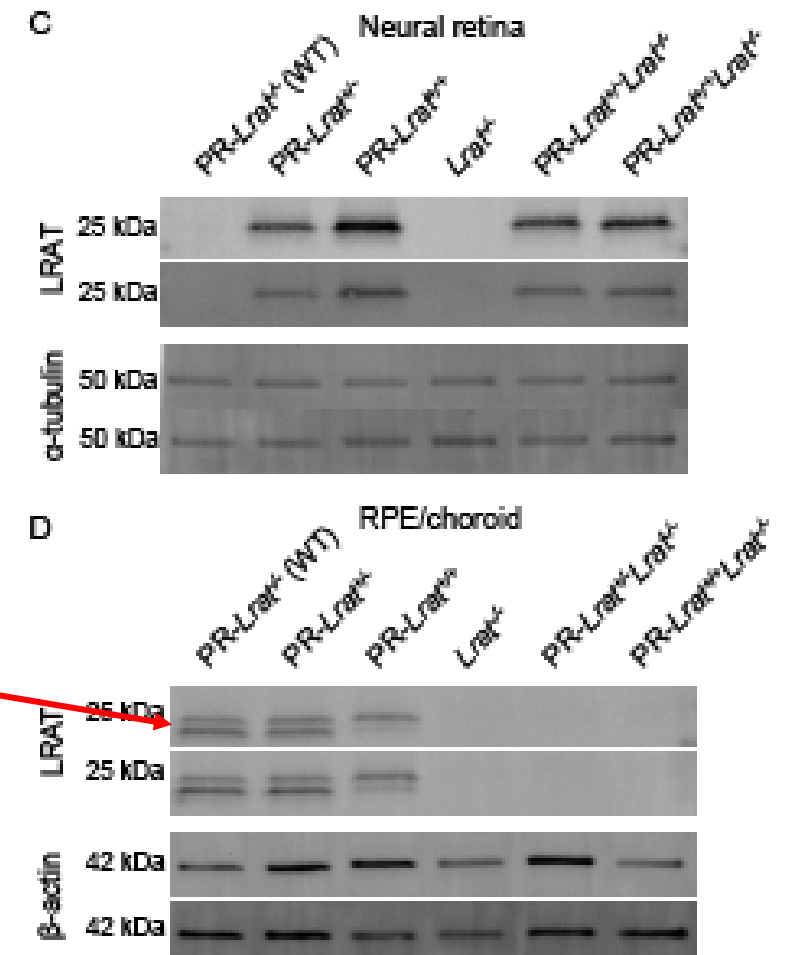


Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))

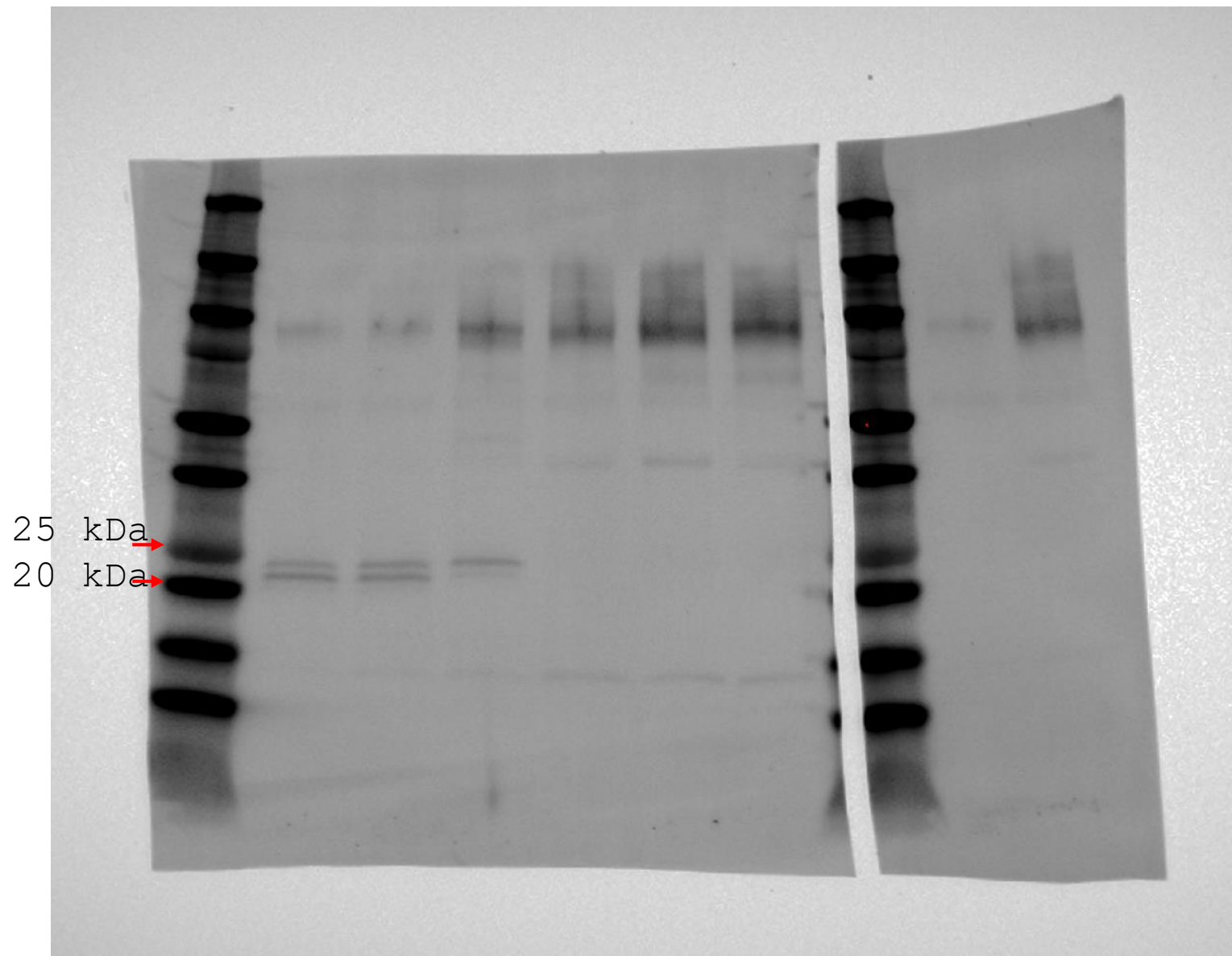
Figure 2 Panel D



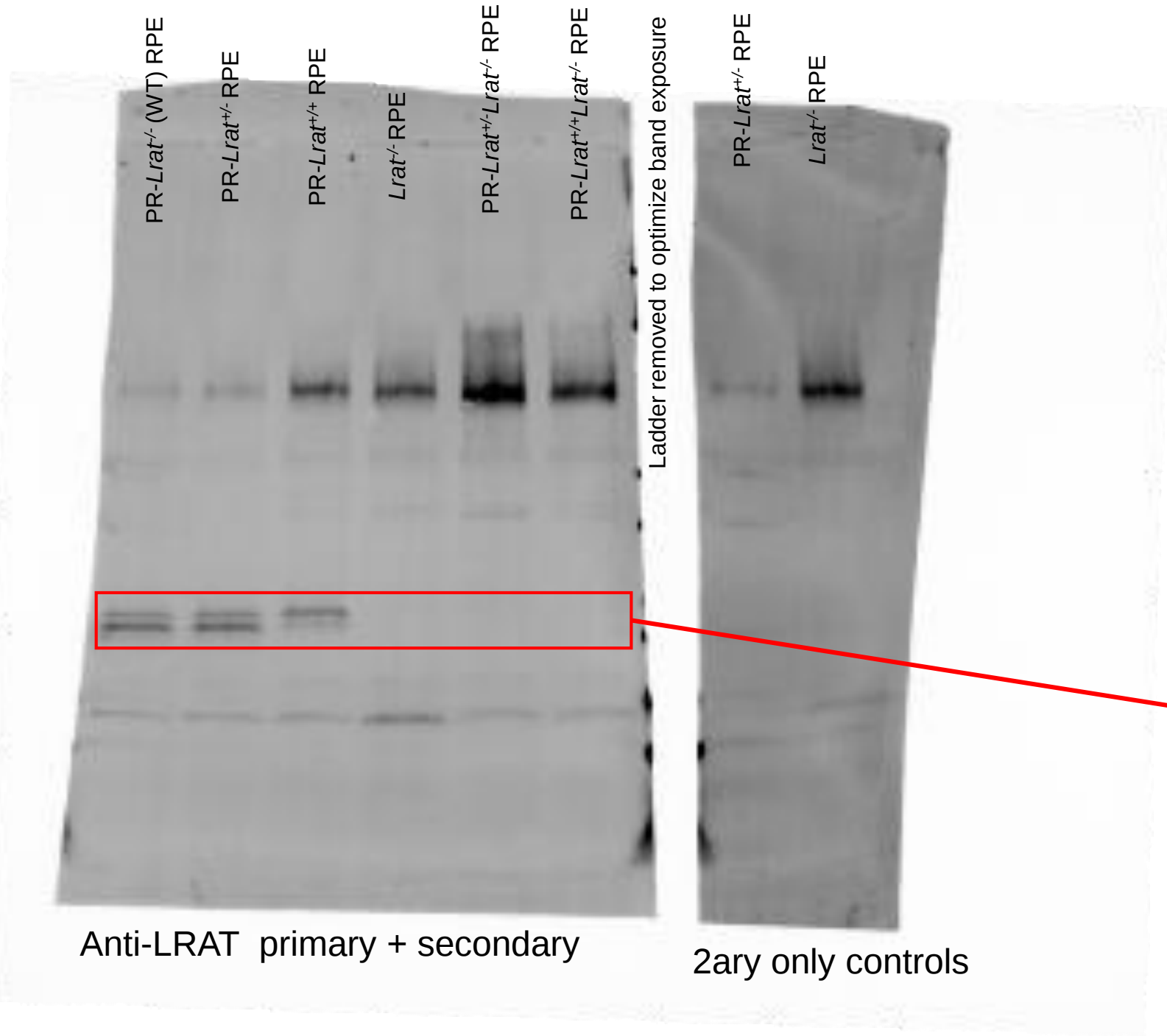
As in Figure 2 Panel D:



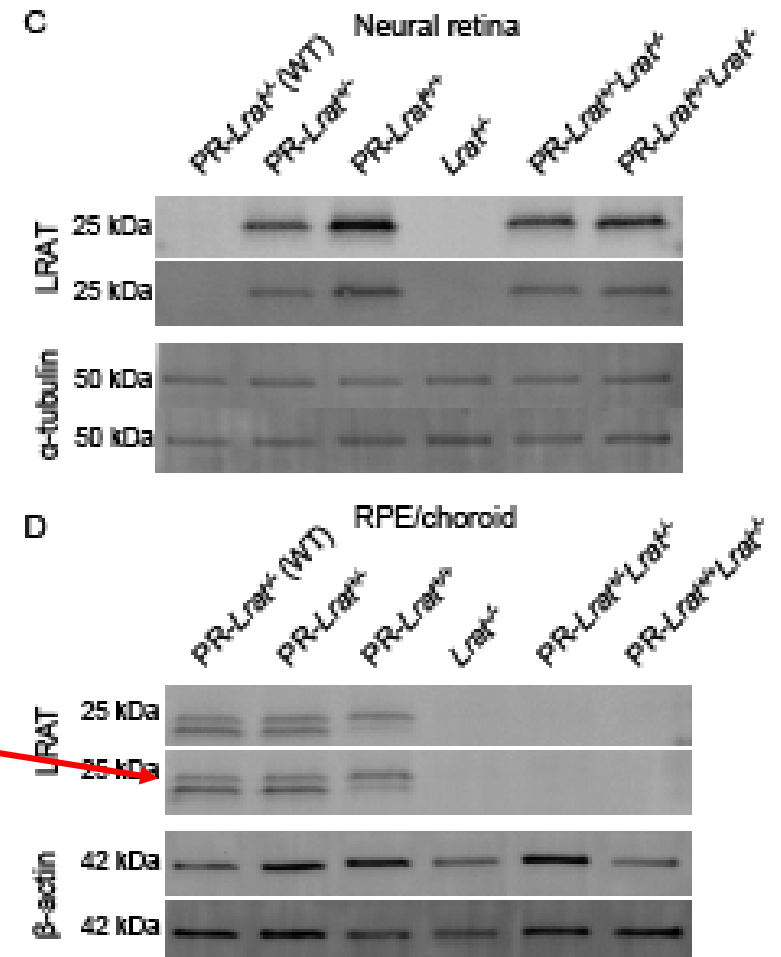
*See same blot w/ ladder on n



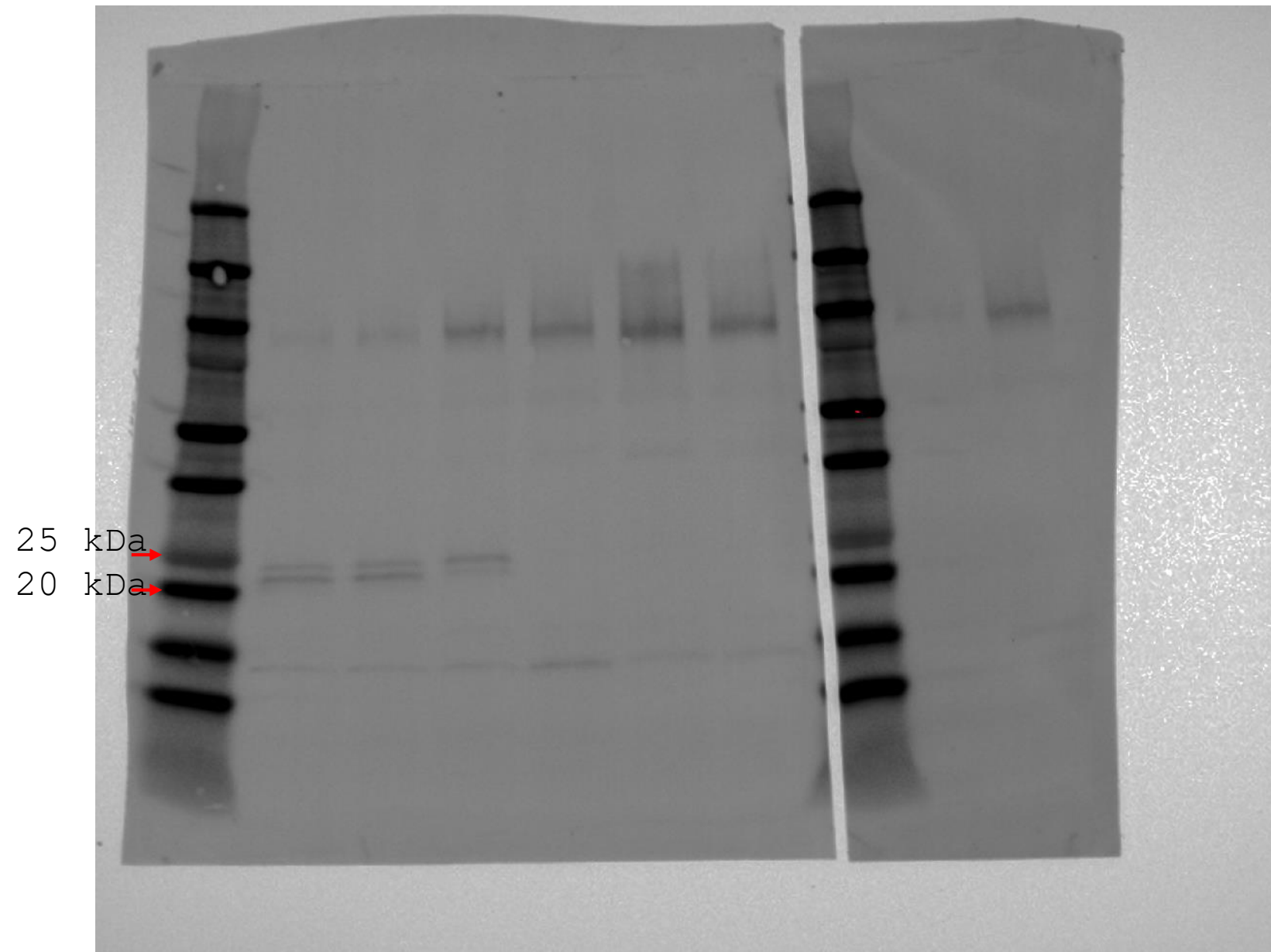
Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))



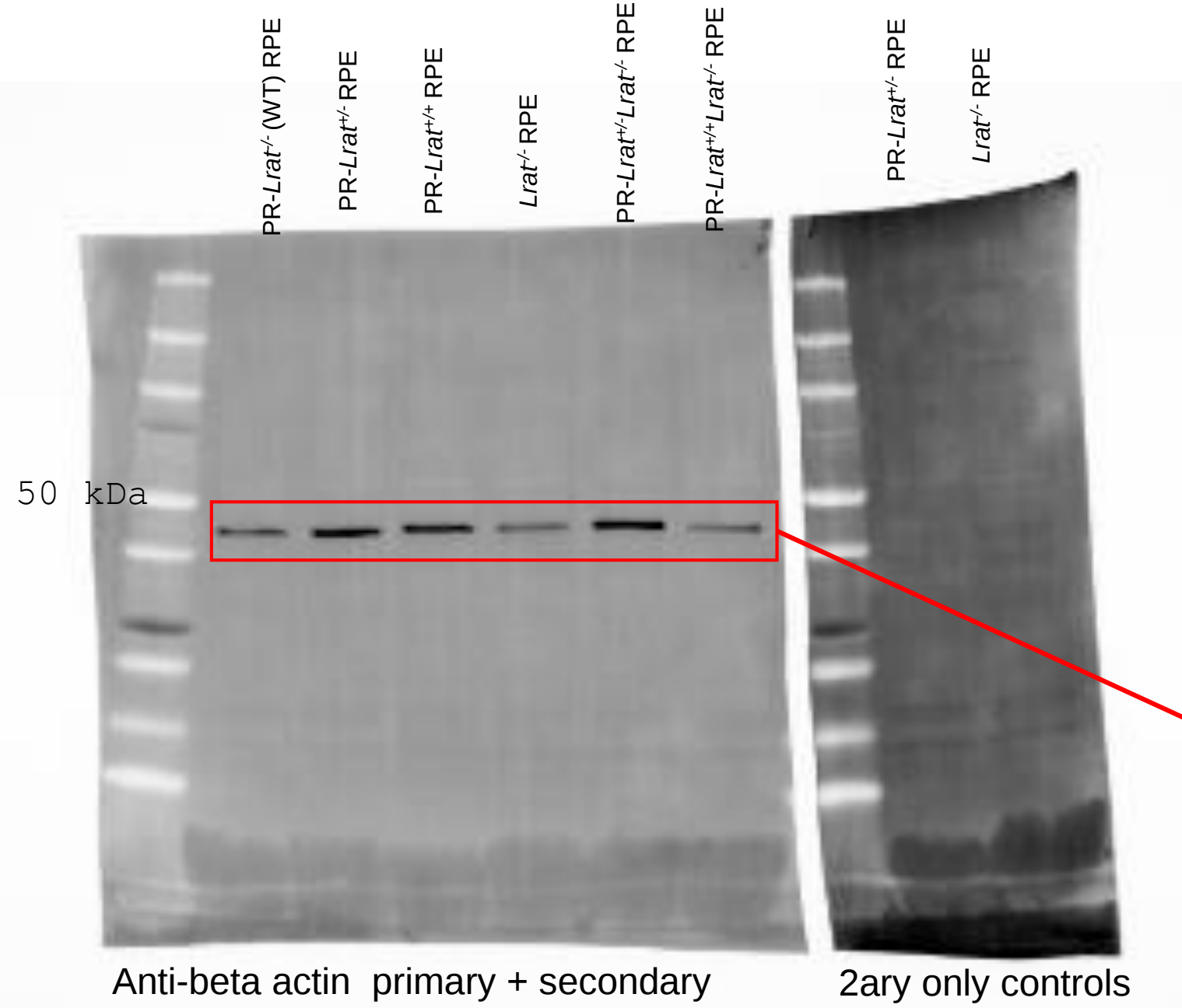
As in Figure 2 Panel D:



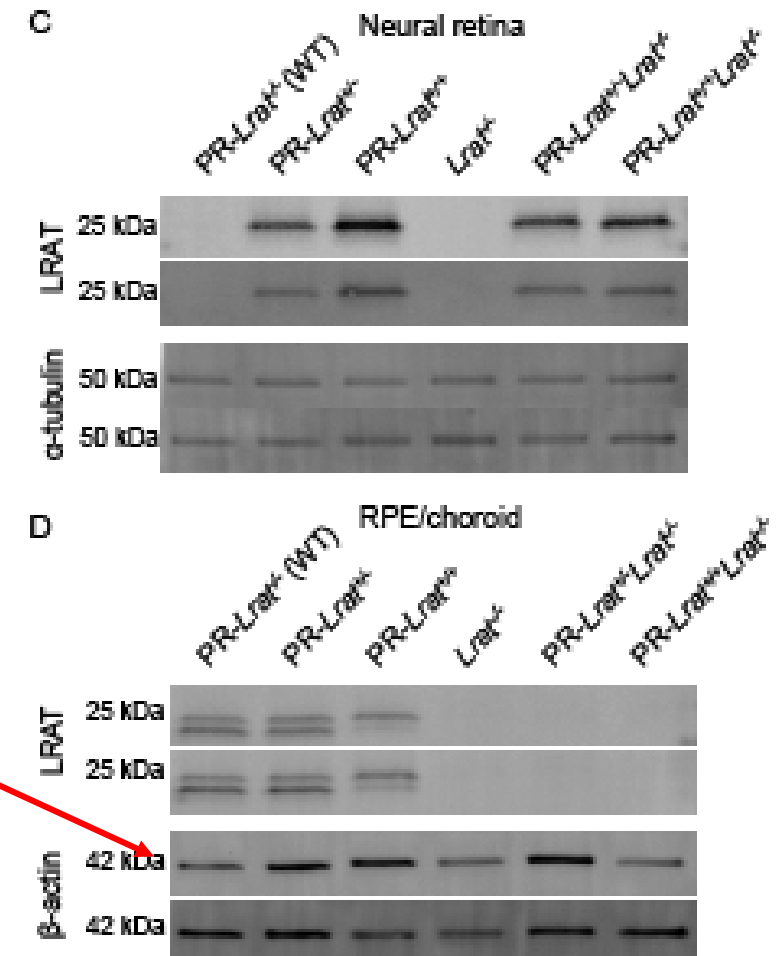
*See same blot w/ ladder on n



Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))



As in Figure 2 Panel D:



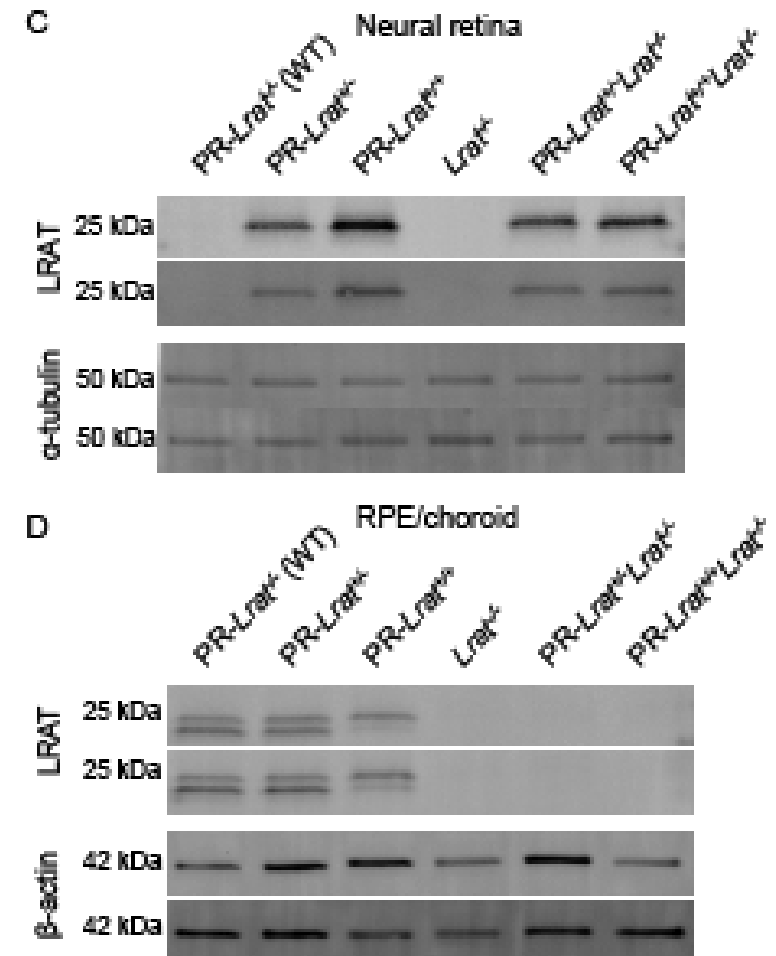
*Different antibody host species, secondary, channel used for beta actin ; same blot as featured in slides 12 + 13 staining for anti LRAT.

PR-Lrat^{-/-} (WT) RPE
PR-Lrat^{+/-} RPE
PR-Lrat^{+/-} RPE
Lrat^{-/-} RPE
PR-Lrat^{+/-}Lrat^{-/-} R
PR-Lrat^{+/-}Lrat^{-/-} R

Ladder removed to optimize band exposure

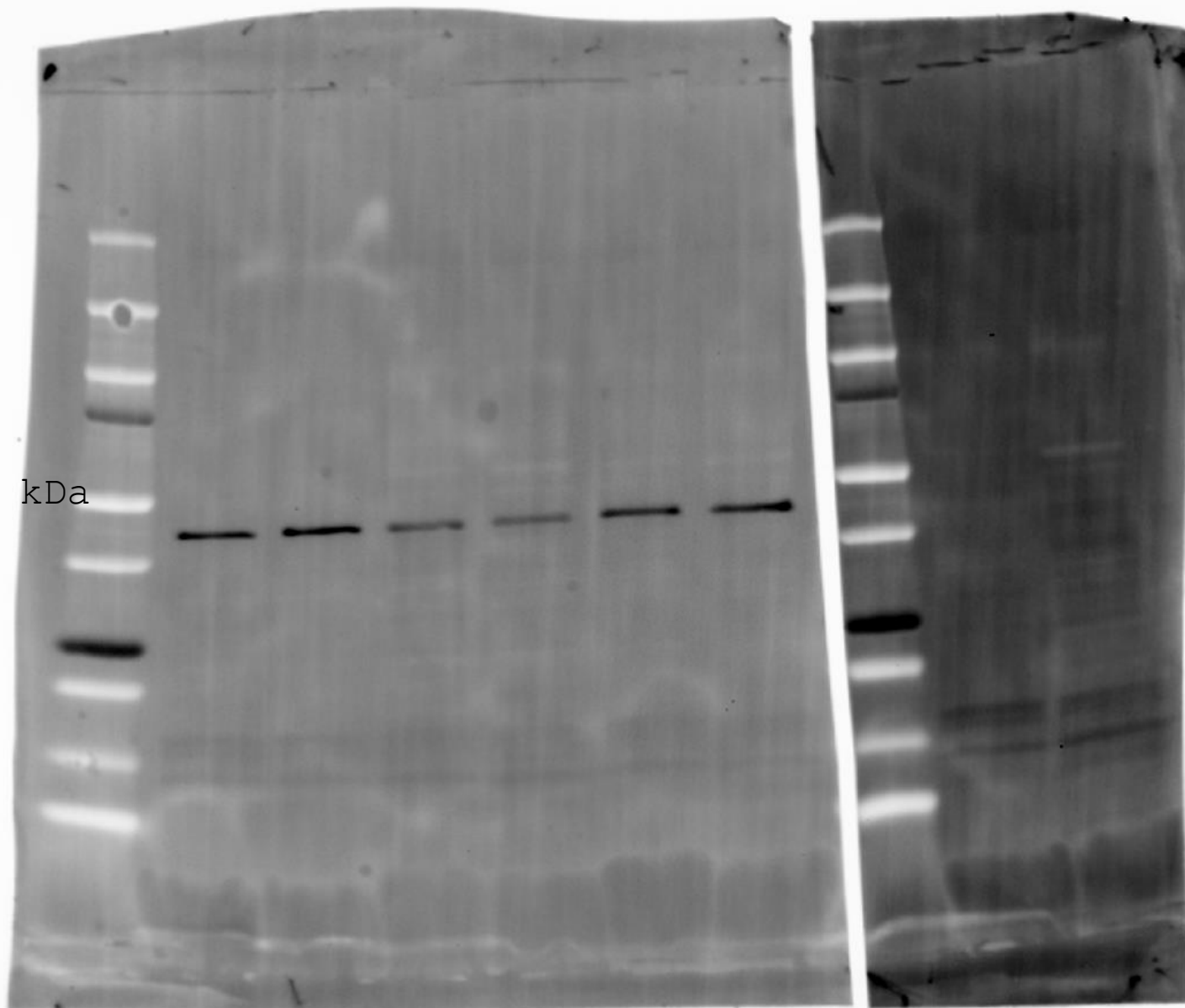
PR-Lrat^{+/-} R
Lrat^{-/-} RPE

As in Figure 2 Panel D:



Different antibody host species, secondary, channel used for beta actin. See same blot w/ ladder on n
; same blot as featured in slides 14 + 15 staining for anti LRAT.

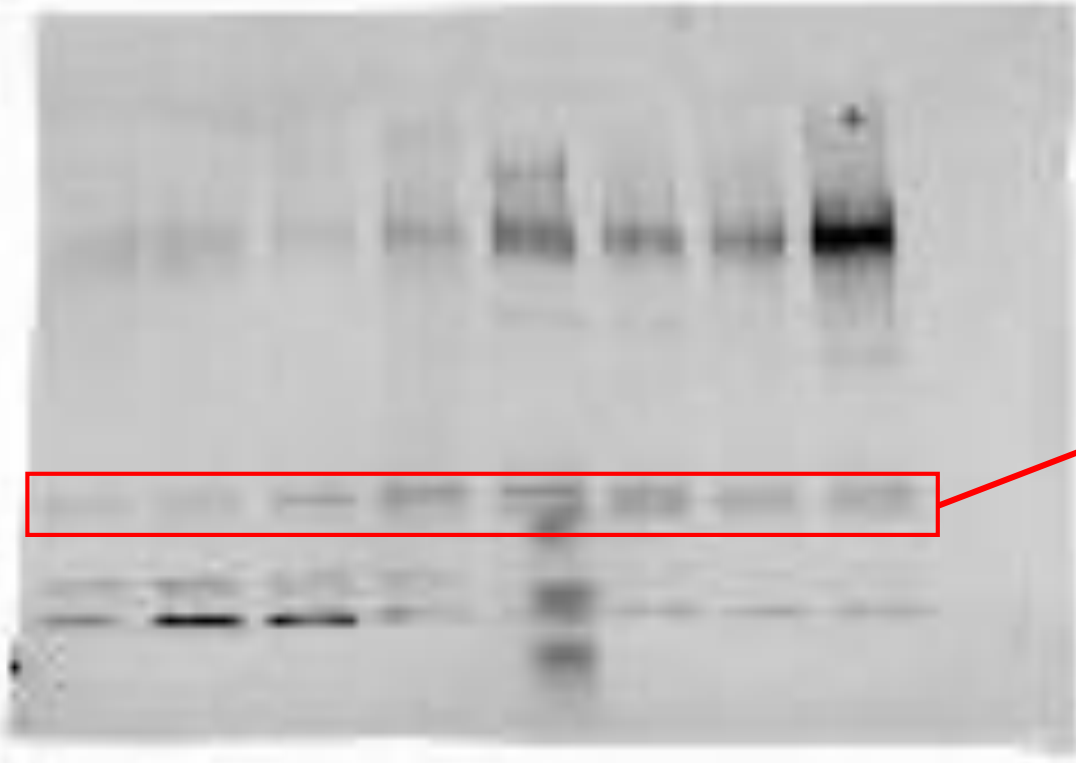
50 kDa



Same blot as previous slide but
with molecular weight ladders
(Precision Plus Protein Dual Color
Standard (BioRad Cat #: 1610374))

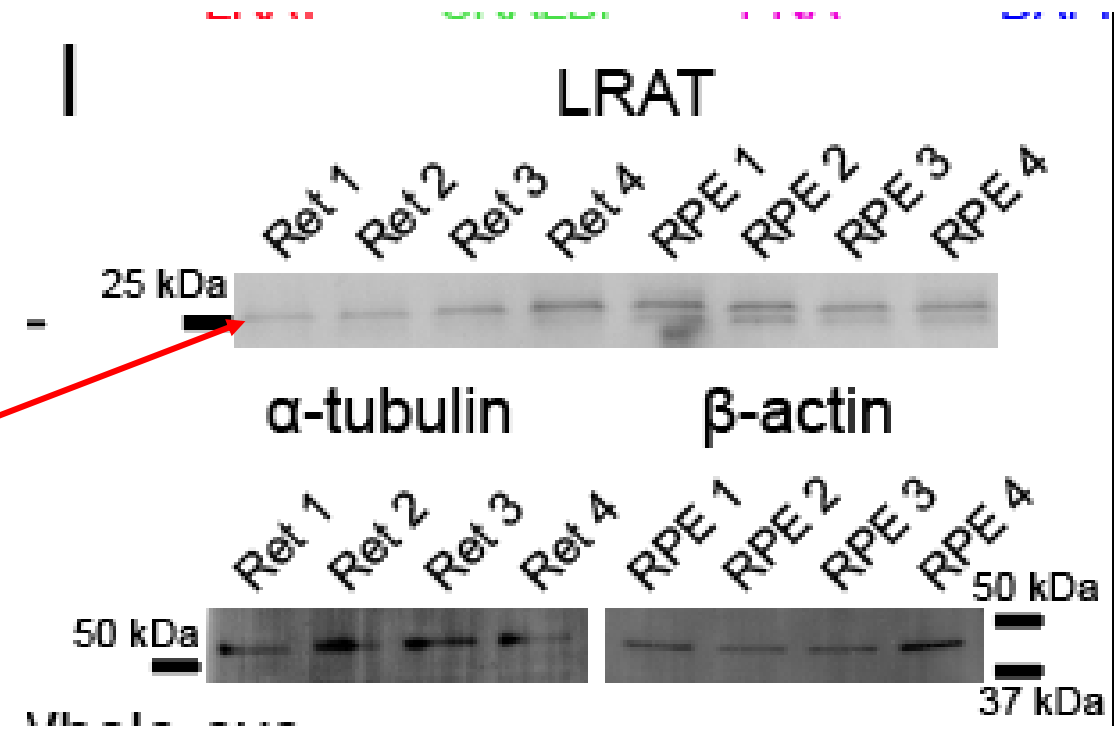
Figure 6 Panel I

MG-Lrat Ret. 1
 MG-Lrat Ret. 2
 MG-Lrat Ret. 3
 MG-Lrat Ret. 4
 MG-Lrat RPE 1
 MG-Lrat RPE 2
 MG-Lrat RPE 3
 MG-Lrat RPE 4



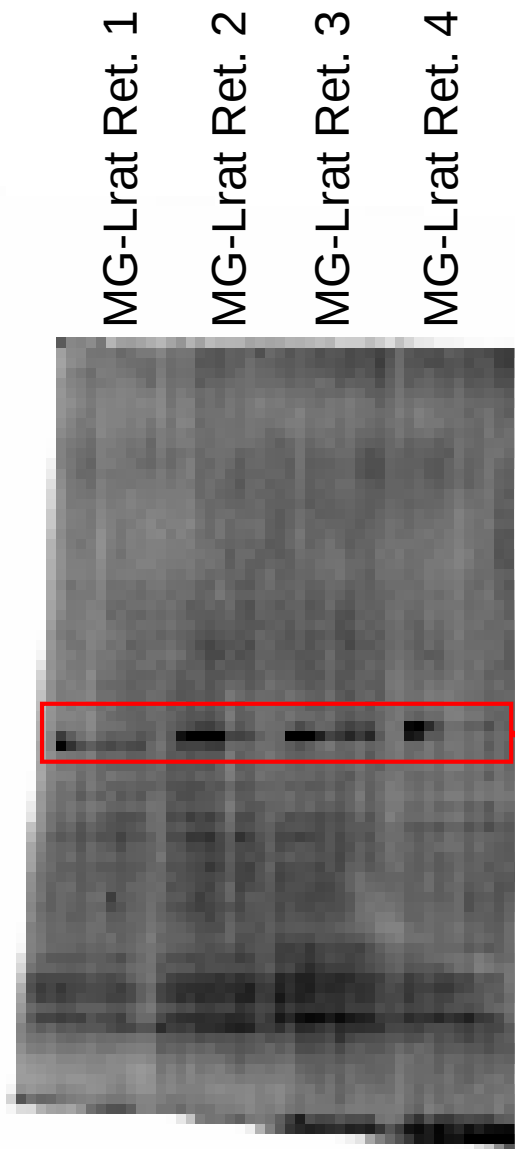
Anti-LRAT primary + secondary

Ladder removed to optimize band exposure;
 see next slide for ladder inclusion

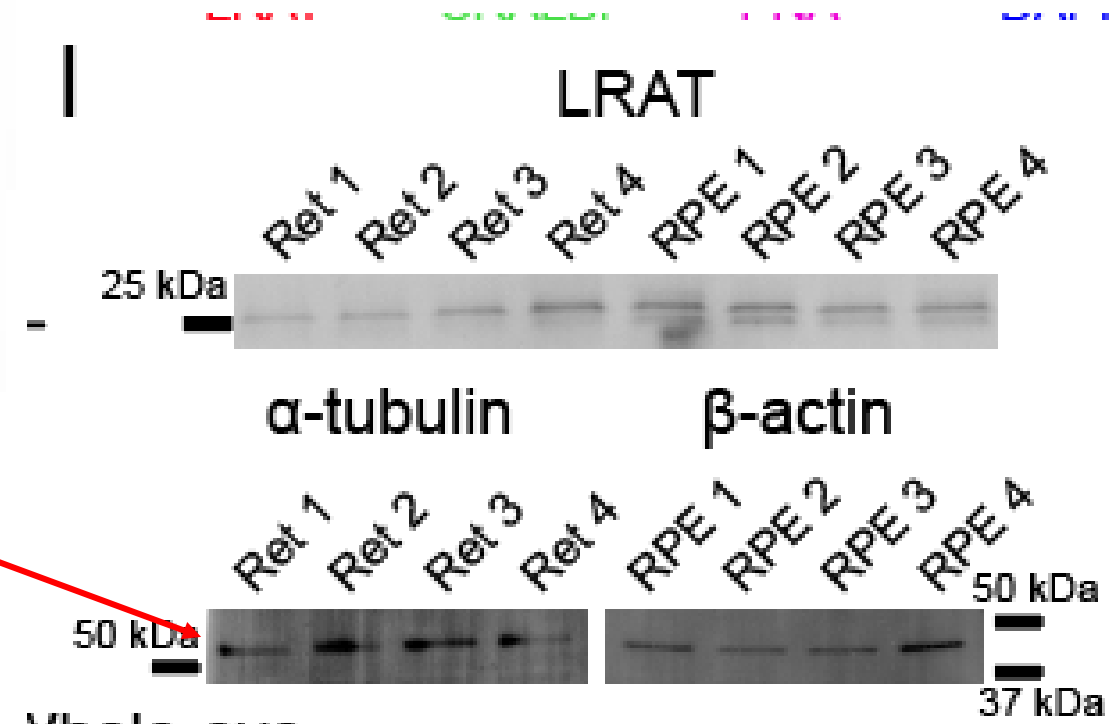


25 kDa →
20 kDa →

Same blot as previous slide
but with molecular weight
ladders (Precision Plus
Protein Dual Color Standard
(BioRad Cat #: 1610374))

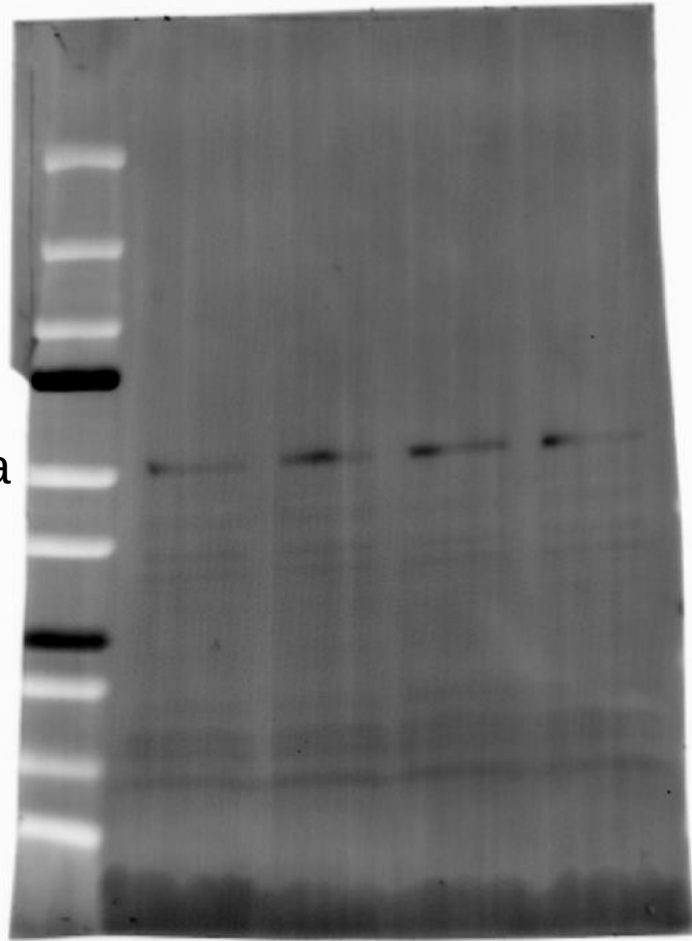


Anti-alpha tubulin primary + secondary



Ladder removed to optimize band exposure;
see next slide for ladder inclusion

50 kDa



Same blot as previous slide
but with molecular weight
ladders (Precision Plus
Protein Dual Color Standard
(BioRad Cat #: 1610374)

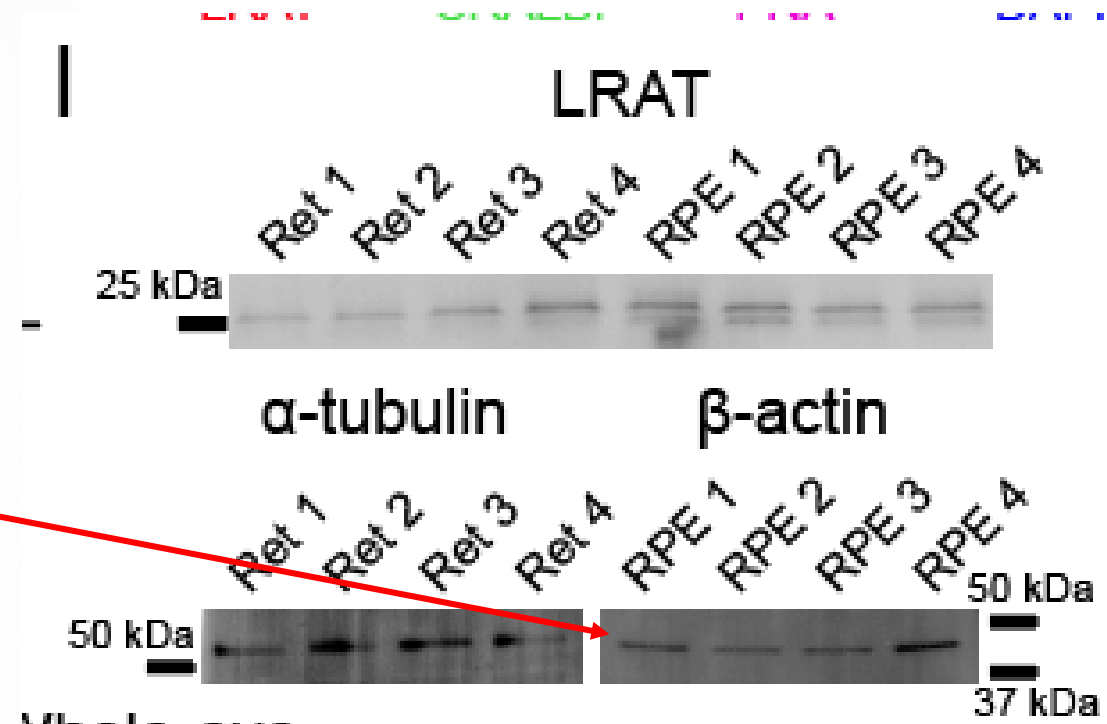
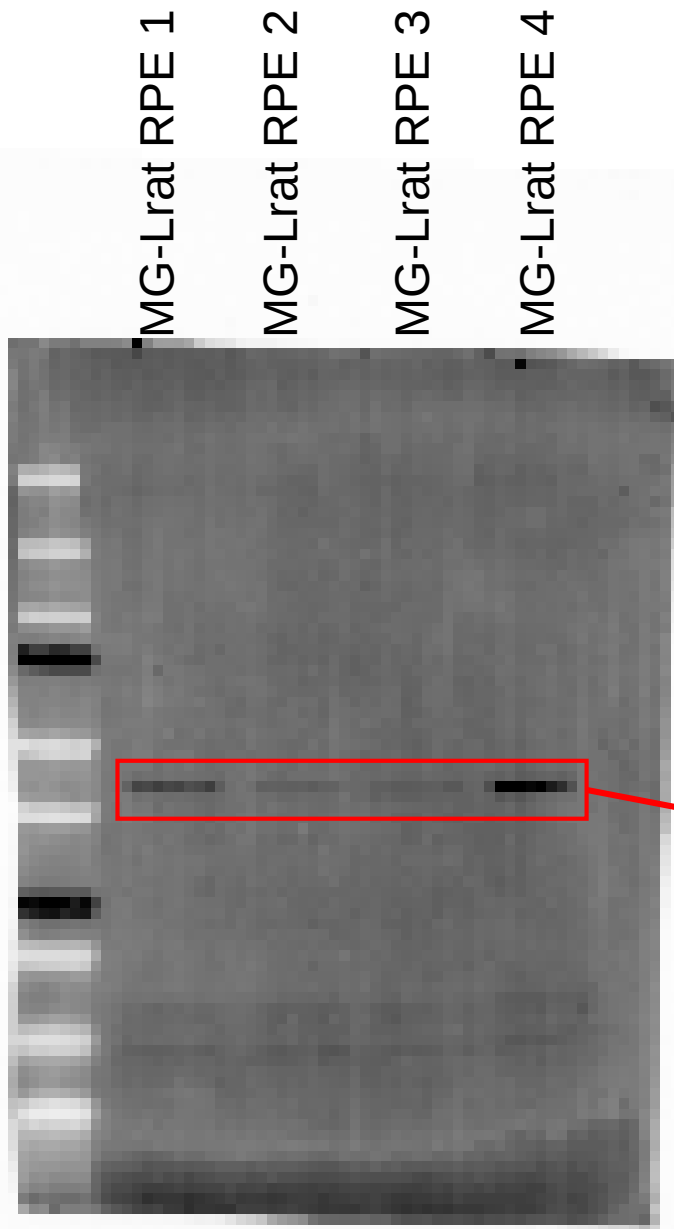
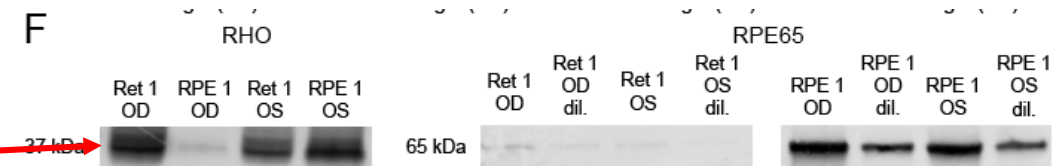
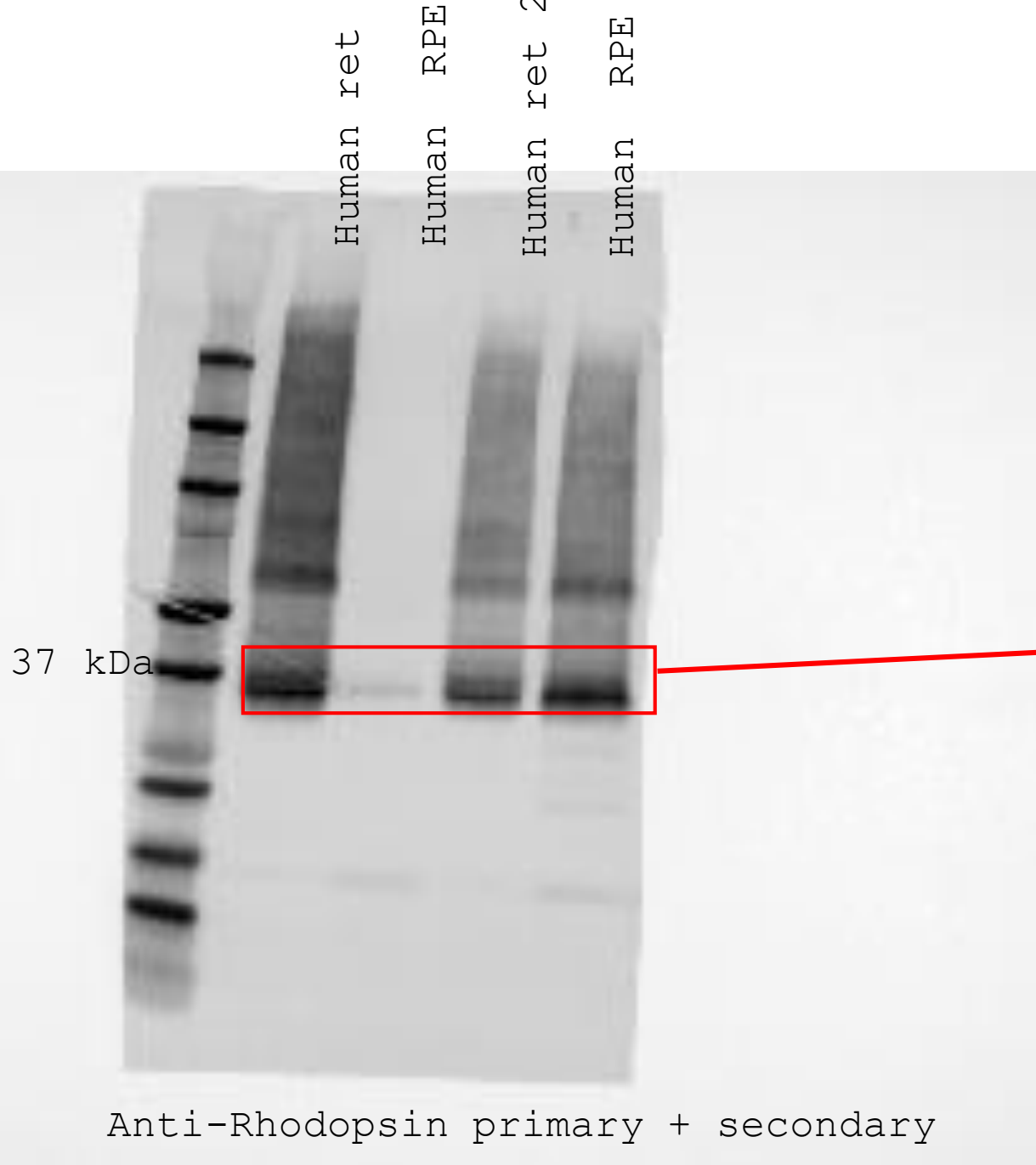


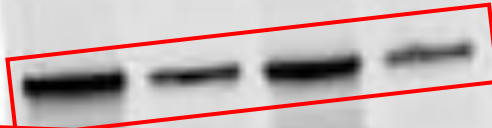
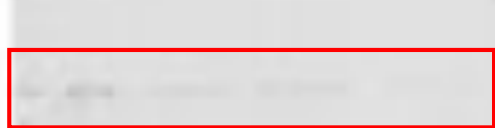
Figure 9 Panel F



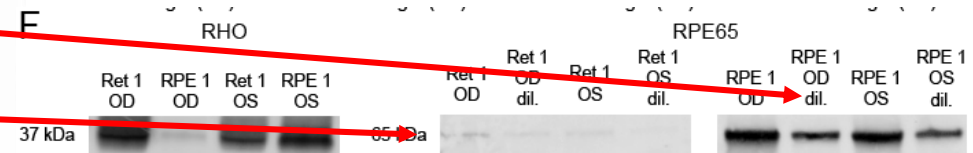
With molecular weight ladder (Precision Plus Protein Dual Color Standard (BioRad Cat #: 1610374))

Human ret 1
Human ret 1 dil
Human ret 2
Human ret 2 dil

Human RPE 1
Human RPE 1 dilut
Human RPE 2
Human RPE 2 dil



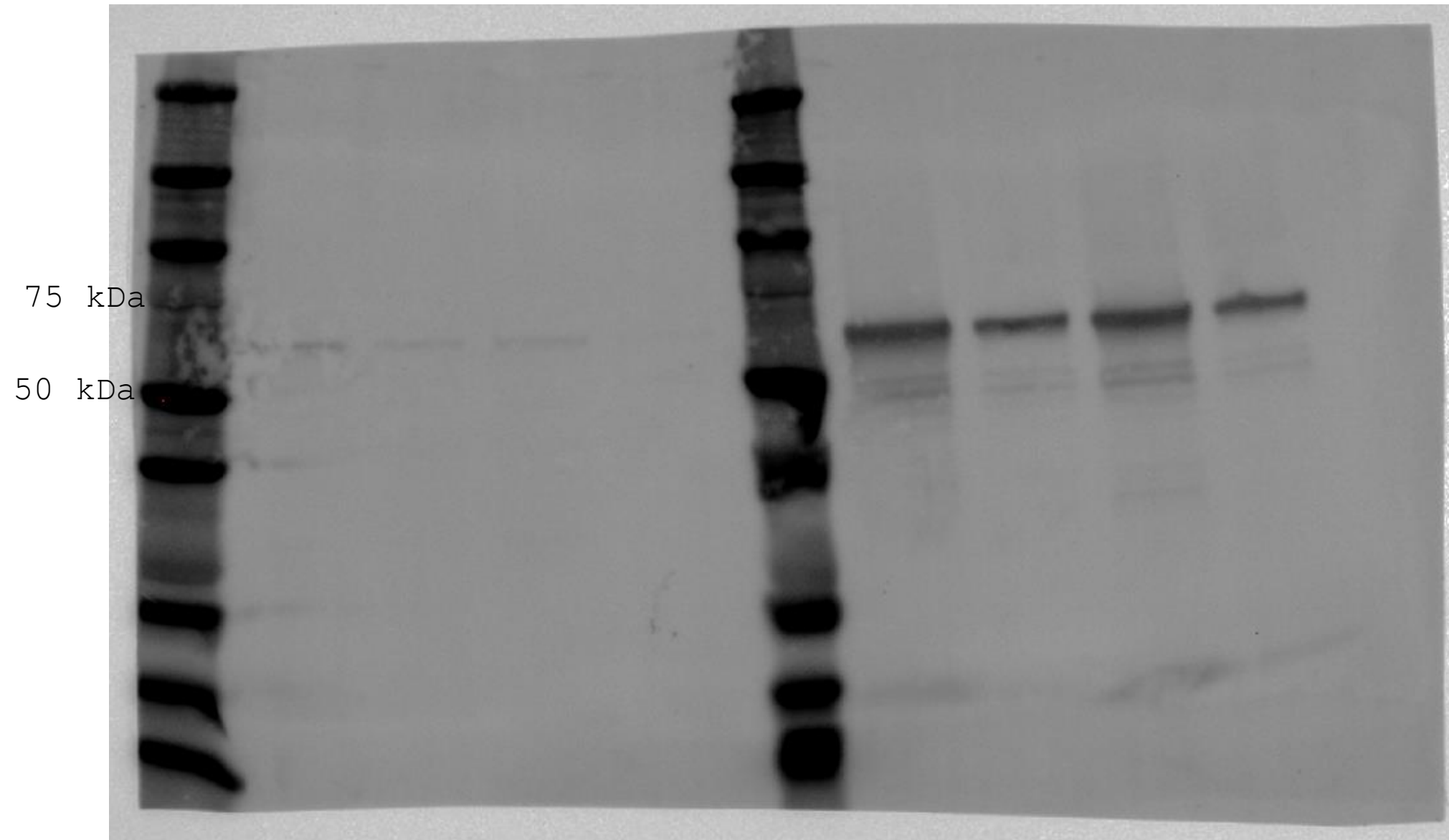
F



Anti-RPE65 primary + secondary

Ladder removed to optimize band exposure;
see next slide for ladder inclusion

With molecular weight ladders (Precision Plus Protein Dual
Color Standard (BioRad Cat #: 1610374))



Supplementary Figure 3 Panel B

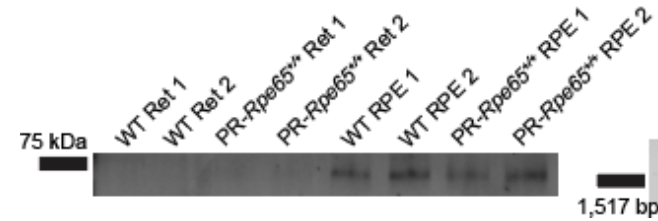
WT Ret. 1
 WT Ret. 2
 PR-Rpe65^{+/+} Ret. 1
 PR-Rpe65^{+/+} Ret. 2
 WT RPE 1
 WT RPE 2
 PR-Rpe65^{+/+} RPE 1
 PR-Rpe65^{+/+} RPE 2



Anti-RPE65 primary + secondary

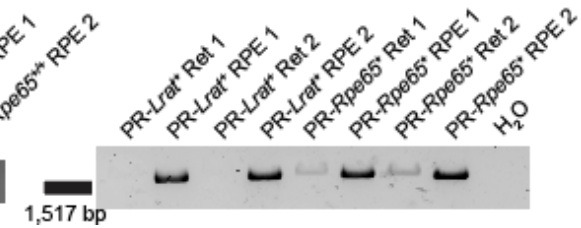
B

α -RPE65

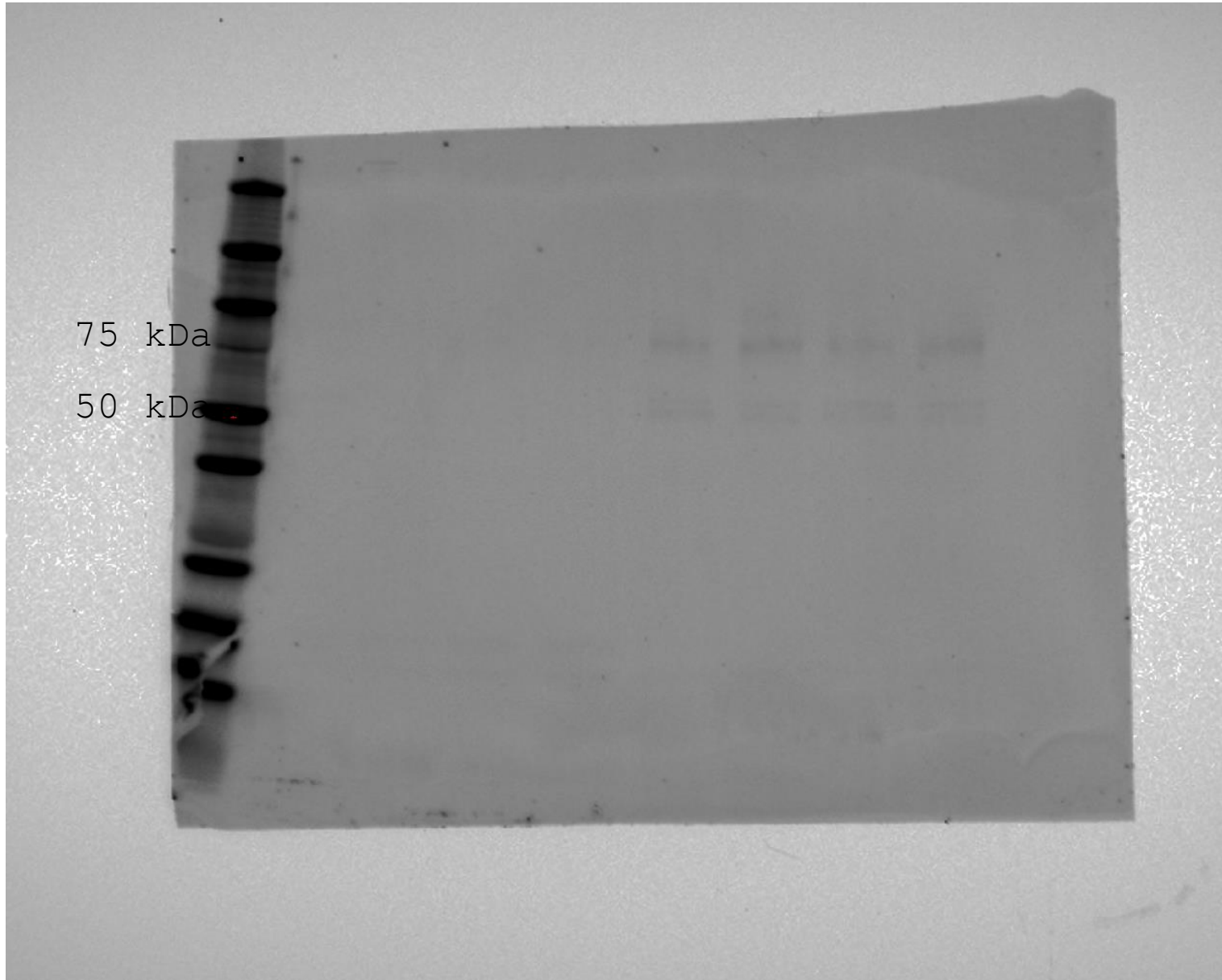


C

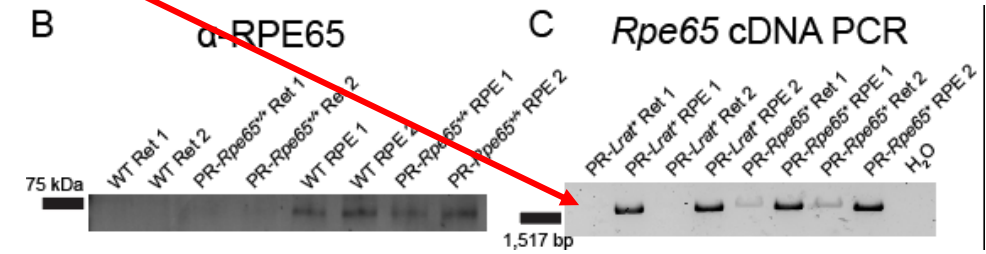
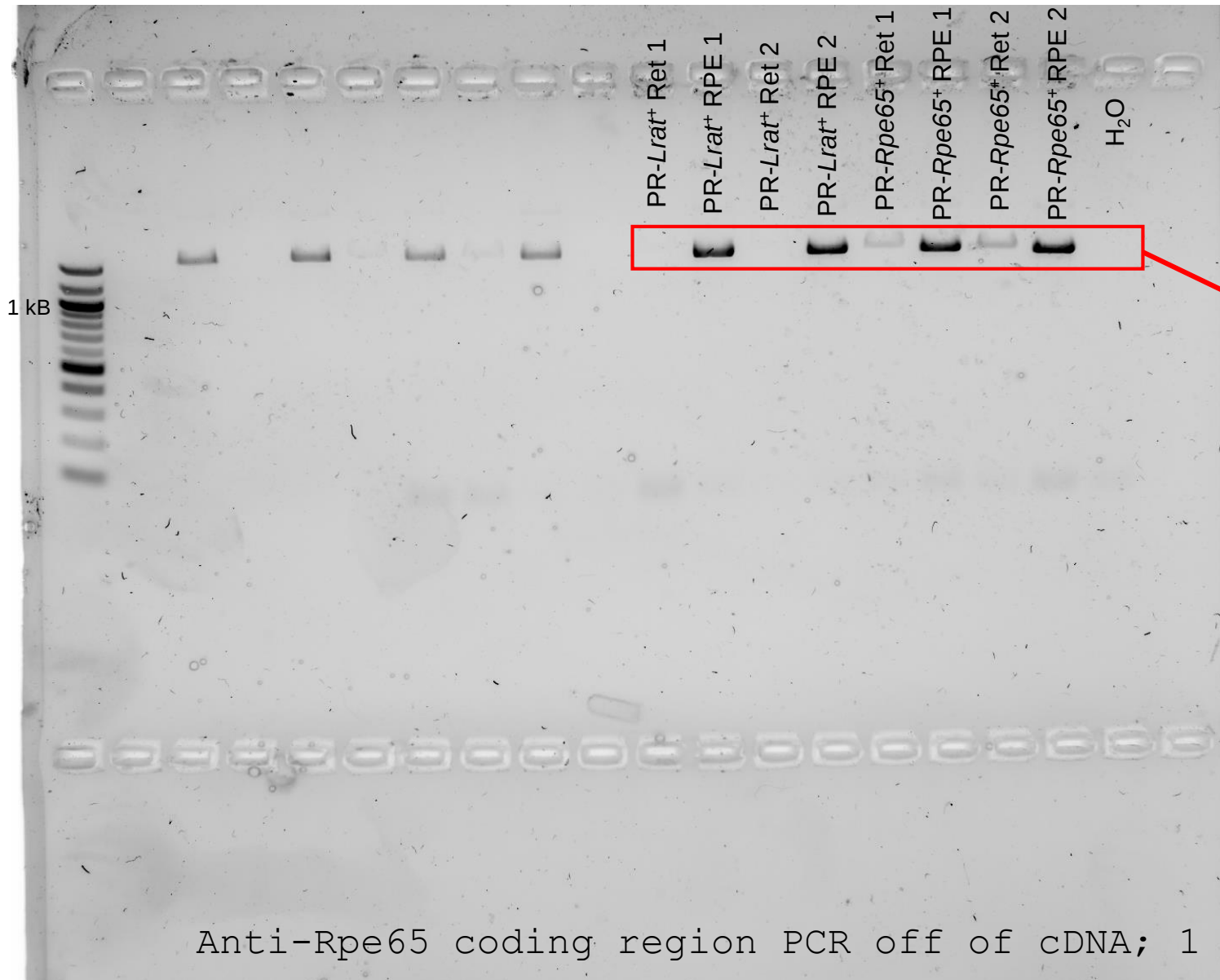
Rpe65 cDNA PCR



Ladder removed to optimize band exposure;
 see next slide for ladder inclusion



Same blot as previous slide
but with molecular weight
ladders (Precision Plus
Protein Dual Color Standard
(BioRad Cat #: 1610374)



Supplementary Figure 16 Panel A

*Bands on top had more amplification cycles; signal too saturated

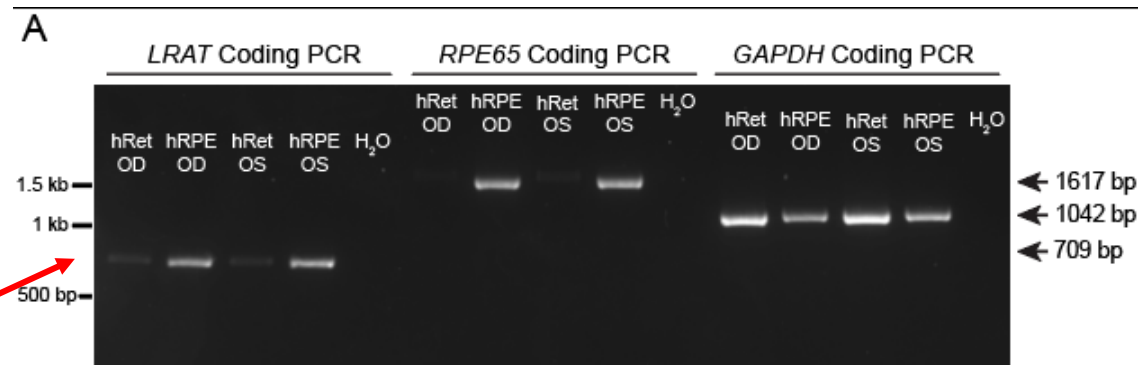
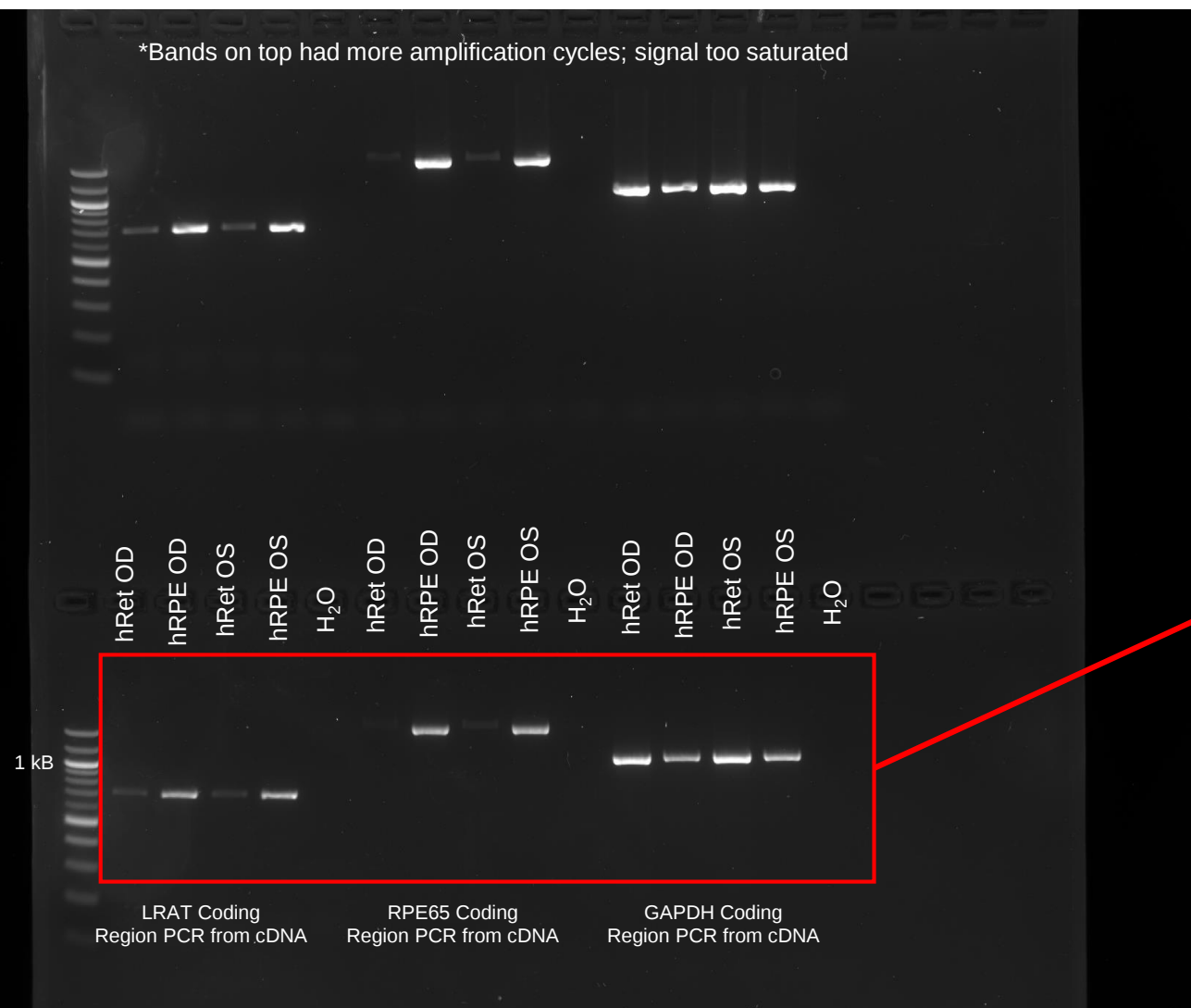


Figure 2 Panels A-B

Immunohistochemistry

Figure 2 Panel A: Uncropped images + secondary only controls

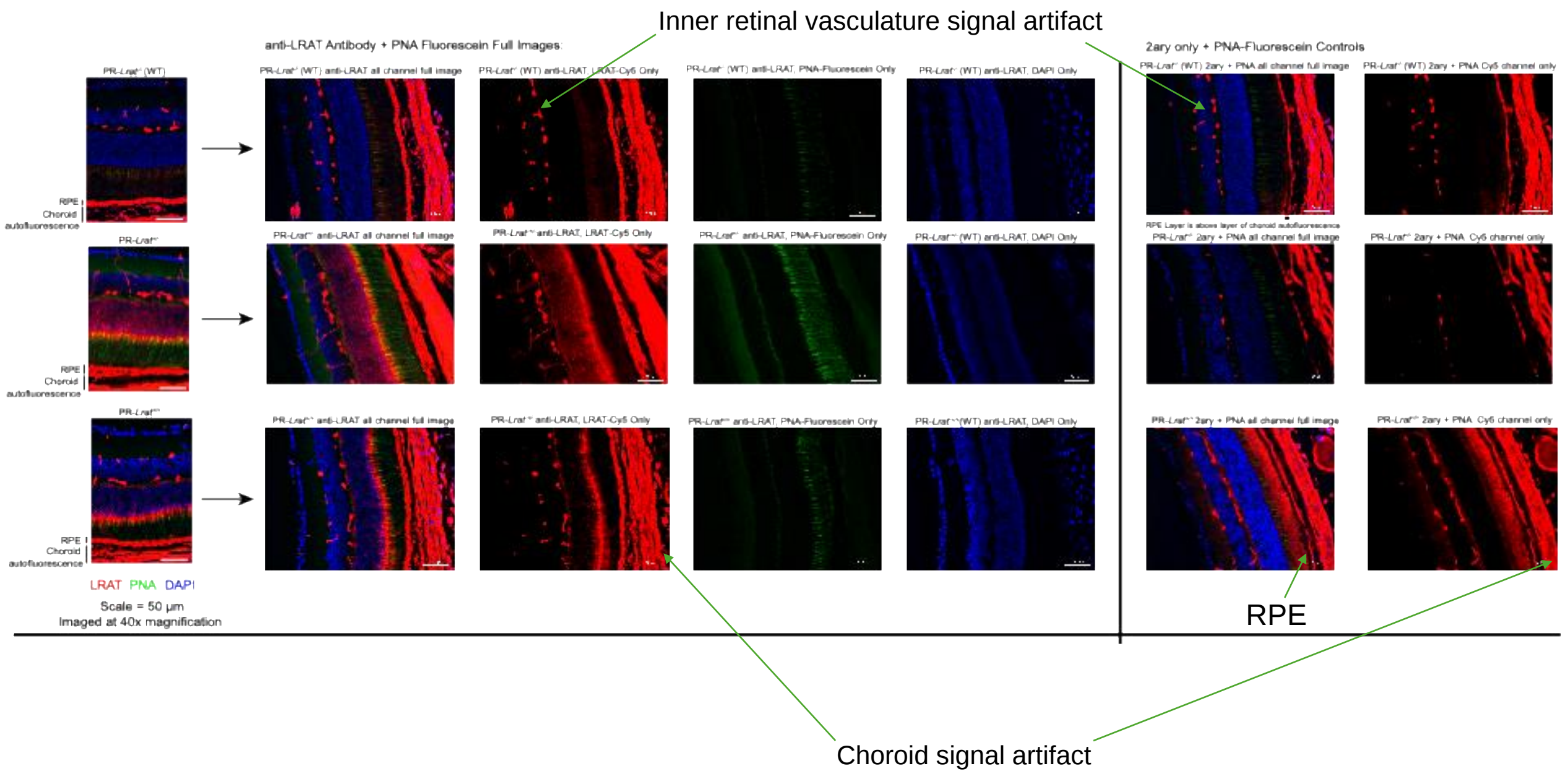
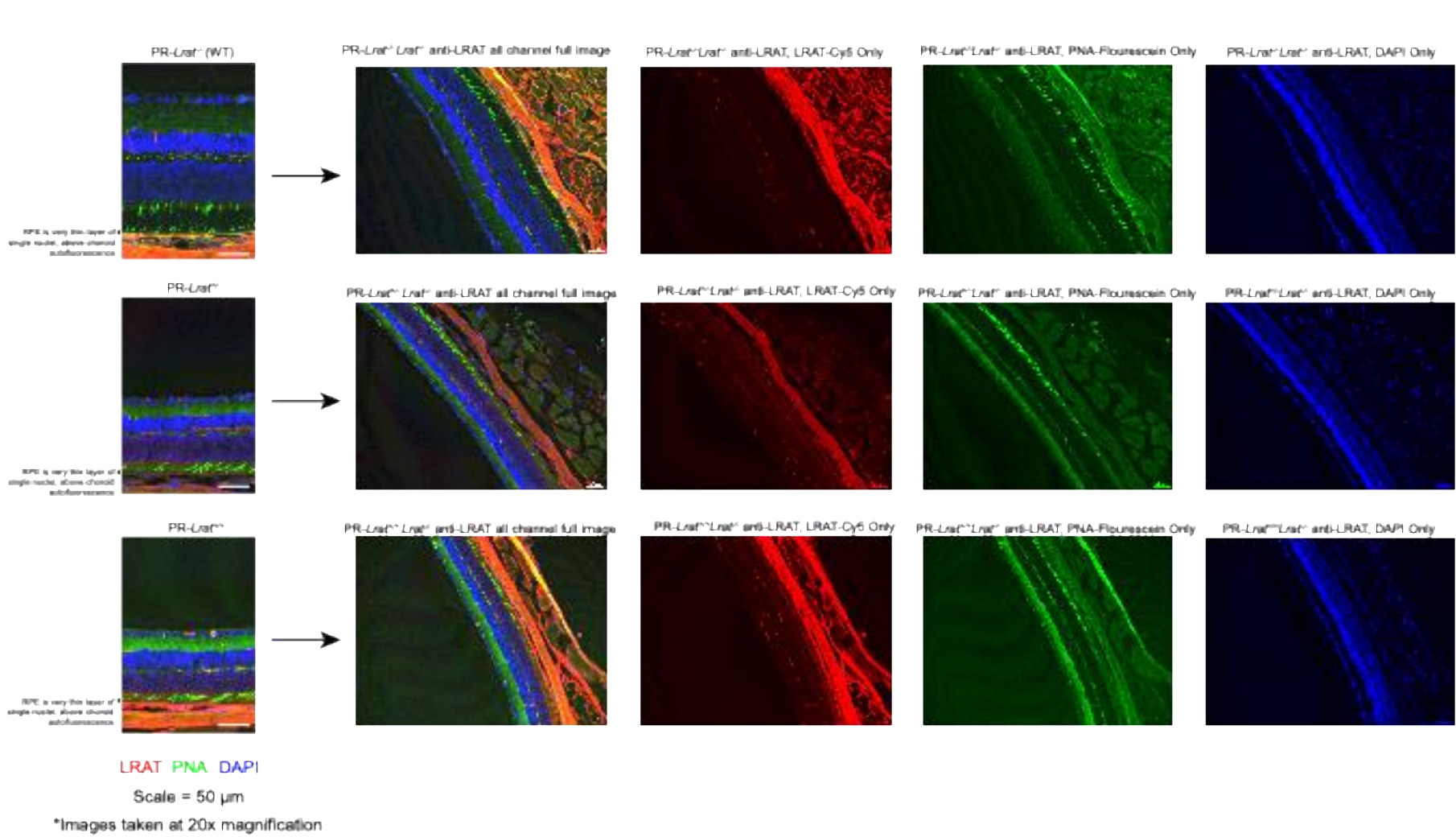


Figure 2 Panel B: Uncropped images



No secondary only controls performed for these samples