

For Research Use Only

RPE65 Polyclonal antibody

Catalog Number: 17939-1-AP **11 Publications**



Basic Information

Catalog Number: 17939-1-AP	GenBank Accession Number: BC075036	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 6121	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q16518	
Isotype: IgG	Full Name: retinal pigment epithelium-specific protein 65kDa	
Immunogen Catalog Number: AG12356	Calculated MW: 533 aa, 61 kDa	
	Observed MW: 65 kDa, 61 kDa	

Applications

Tested Applications: IF-P, IHC, WB, ELISA	Positive Controls: WB : Y79 cells, HeLa cells, PC-3 cells, mouse eye tissue
Cited Applications: IF, IHC, WB	IHC : mouse eye tissue,
Species Specificity: human, mouse, rat	IF : mouse eye tissue,
Cited Species: human, rat, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

RPE65(Retinal pigment epithelium-specific 65 kDa protein) is also named as retinoid isomerohydrolase with the calculated molecular weight of 61 kDa and belongs to the carotenoid oxygenase family. It is a microsomal protein with isomerase activity in the retinoid visual cycle that playing a role in the isomerisation of all-trans (vitamin A) to 11-cis retinal, the chromophore of the visual pigments. It also might be involved in retinoid uptake of keratinocytes.

Notable Publications

Author	Pubmed ID	Journal	Application
Jianing Gu	31075513	Acta Biomater	WB
Caiying Liu	35325805	Redox Biol	WB
Lars Tebbe	35344225	FASEB J	IF

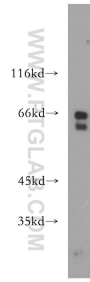
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

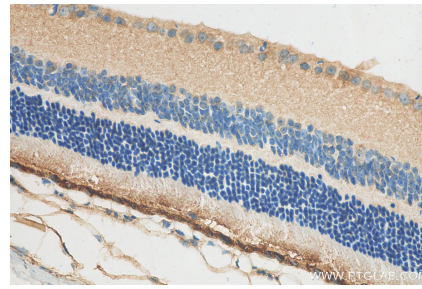
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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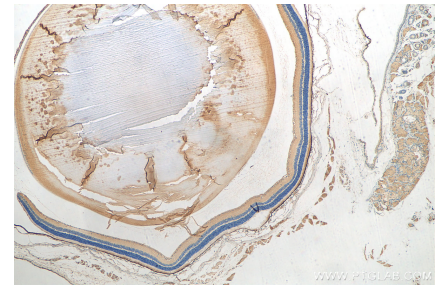
Selected Validation Data



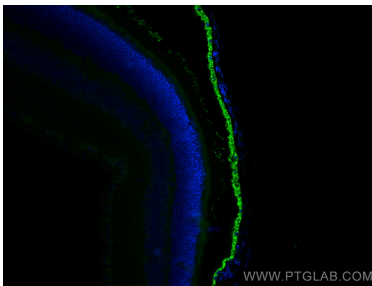
Y79 cells were subjected to SDS PAGE followed by western blot with 17939-1-AP (RPE65 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



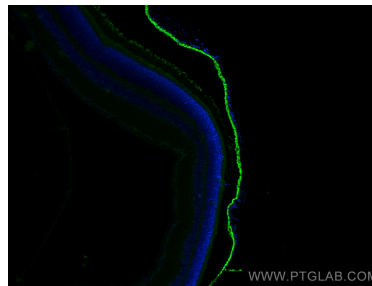
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 17939-1-AP (RPE65 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



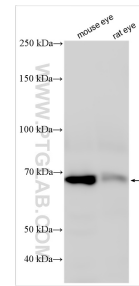
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 17939-1-AP (RPE65 antibody) at dilution of 1:200 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using RPE65 antibody (17939-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using RPE65 antibody (17939-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 17939-1-AP (RPE65 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.