

For Research Use Only

RPGR Polyclonal antibody

Catalog Number: 16891-1-AP

4 Publications



Basic Information

Catalog Number:

16891-1-AP

Concentration:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10405

GenBank Accession Number:

BC031624

GeneID (NCBI):

6103

UNIPROT ID:

Q92834

Full Name:

retinitis pigmentosa GTPase regulator

Calculated MW:

113 kDa

Observed MW:

100-105 kDa, 70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

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

Positive Controls:

WB : mouse eye tissue, mouse liver tissue, Y79 cells, SH-SY5Y cells, mouse retina tissue

IHC : mouse eye tissue, human heart tissue, human kidney tissue

IF/ICC : hTERT-RPE1 cells,

Background Information

RPGR is a protein with a series of six RCC1-like domains (RLDs), characteristic of the highly conserved guanine nucleotide exchange factors. The encoded protein is found in the Golgi body and interacts with RPGRIP1. This protein localizes to the outer segment of rod photoreceptors and is essential for their viability. Mutations in this gene have been associated with X-linked retinitis pigmentosa (XLRP). Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some have been determined. This antibody can recognize all the isoforms of RPGR.

Notable Publications

Author	Pubmed ID	Journal	Application
Dario Cilleros-Rodriguez	36063381	Elife	WB
Fidelle Chahine Karam	35330501	J Pers Med	WB
Olivier Mercey	39528655	EMBO 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:

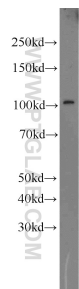
T: 4006900926

E: Proteintech-CN@ptglab.com

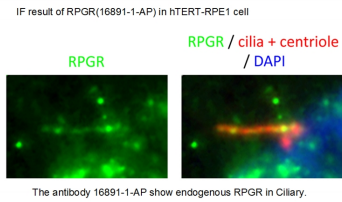
W: ptgcn.com

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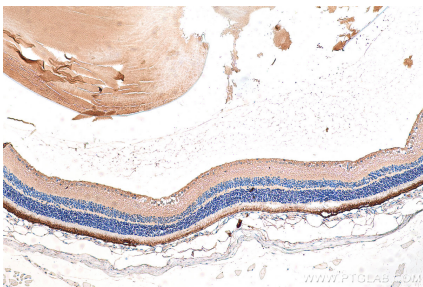
Selected Validation Data



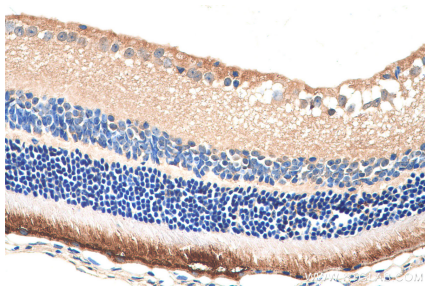
mouse eye tissue were subjected to SDS PAGE followed by western blot with 16891-1-AP (RPGR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



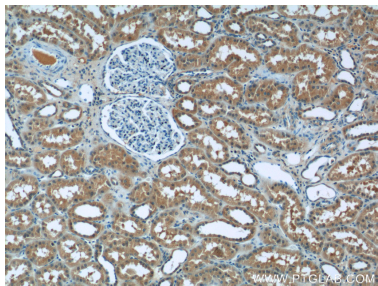
IF result of anti-RPGR (16891-1-AP) in hTERT-RPE1 cell by Dr. Seongjin Seo.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 16891-1-AP (RPGR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 16891-1-AP (RPGR 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 human kidney tissue slide using 16891-1-AP (RPGR Antibody) at dilution of 1:50 (under 10x lens).