

For Research Use Only

# RPGRIP1 Polyclonal antibody

Catalog Number: 13214-1-AP

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 13214-1-AP	<b>GenBank Accession Number:</b> BC039089	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 550 µg/ml by Nanodrop and 413 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57096	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> retinitis pigmentosa GTPase regulator interacting protein 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 147 kDa	
<b>Immunogen Catalog Number:</b> AG4089	<b>Observed MW:</b> 70 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : Y79 cells, HEK-293 cells, HL-60 cells
<b>Cited Applications:</b> IF, WB	<b>IHC :</b> mouse eye tissue, mouse testis tissue
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> 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

RPGRIP1 is a photoreceptor protein that interacts with retinitis pigmentosa GTPase regulator protein and is a key component of cone and rod photoreceptor cells. The biological functions of RPGRIP1 are complex. Mutations in this gene lead to autosomal recessive congenital blindness. In the eye, it is expressed in amacrine neurons and photoreceptors, and in numerous other tissues, albeit at greatly reduced levels. Moreover, it exists multiple isoforms with species-specific subcellular localization patterns, and the different isoforms perform cell-specific functions. Within photoreceptors, RPGRIP1 localizes predominantly to outer segments (OS) of rods and cones in humans, whereas in bovine eyes, it is found only in rod OS. In contrast, in mice, RPGRIP1 is found primarily in connecting cilia (CC), where it localizes between the ciliary axoneme and the plasma membrane. RPGRIP1 has multiple isoforms with MW 147 kDa, 70-76 kDa, 103 kDa, and 66 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Antonia Wiegand	29650680	EMBO J	WB,IF

## Storage

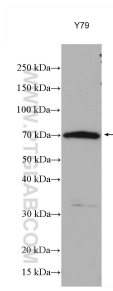
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

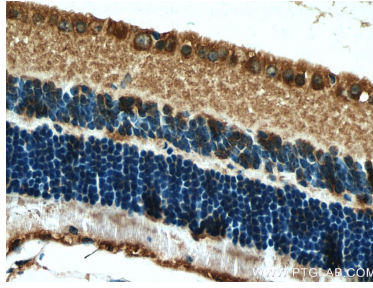
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13214-1-AP (RPGRIP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 13214-1-AP (RPGRIP1 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 13214-1-AP (RPGRIP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).