

For Research Use Only

ROM1 Polyclonal antibody

Catalog Number: 21984-1-AP

11 Publications



Basic Information

Catalog Number:

21984-1-AP

Concentration:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17049

GenBank Accession Number:

BC008100

GeneID (NCBI):

6094

UNIPROT ID:

Q03395

Full Name:

retinal outer segment membrane protein 1

Calculated MW:

351 aa, 37 kDa

Observed MW:

37-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse eye tissue, HeLa cells, rat eye tissue

IF/ICC : HeLa cells,

Background Information

ROM1 (also known as TSPAN23) is a transmembrane protein present in photoreceptor outer segment disc membranes. ROM1 belongs to the tetraspanin superfamily, which are characterized by the presence of four conserved transmembrane regions. Tetraspanins have been involved in diverse processes such as cell activation and proliferation, adhesion and motility, differentiation, and cancer. ROM1 is required for rod photoreceptor viability and the regulation of disk morphogenesis (PMID: 10802659). It may function as an adhesion molecule involved in stabilization and compaction of outer segment disks.

Notable Publications

Author	Pubmed ID	Journal	Application
Poppy Datta	31694913	J Biol Chem	WB, IF
Poppy Datta	33961633	PLoS One	WB, IHC
Poppy Datta	26216965	Proc Natl Acad Sci U S A	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, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

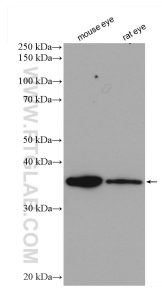
T: 4006900926

E: Proteintech-CN@ptglab.com

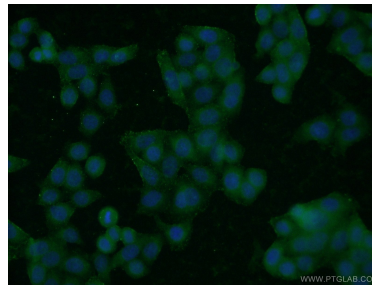
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21984-1-AP (ROM1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 21984-1-AP (ROM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).