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ROM1 Rabbit pAb

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Catalog # AP54390

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q03395
Predicted	Rat, Pig, Cat, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37205
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ROM1
Epitope Specificity	121-220/351
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
DISEASE	Defects in ROM1 may cause retinitis pigmentosa (RP); when associated with defects in PRPH2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of a photoreceptor-specific gene family and encodes an integral membrane protein found in the photoreceptor disk rim of the eye. This protein can form homodimers or can heterodimerize with another photoreceptor, retinal degeneration slow (RDS). It is essential for disk morphogenesis, and may also function as an adhesion molecule involved in the stabilization and compaction of outer segment disks or in the maintenance of the curvature of the rim. Certain defects in this gene have been associated with the degenerative eye disease retinitis pigmentosa. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	6094
Other Names	Rod outer segment membrane protein 1, ROSP1, Tetraspanin-23, Tspan-23, ROM1, TSPAN23
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ROM1
Synonyms	TSPAN23
Function	Plays a role in rod outer segment (ROS) morphogenesis (By similarity). May play a role with PRPH2 in the maintenance of the structure of ROS curved disks (By similarity). Plays a role in the organization of the ROS and maintenance of ROS disk diameter (By similarity). Involved in the maintenance of the retina outer nuclear layer (By similarity).
Cellular Location	Photoreceptor inner segment membrane {ECO:0000250|UniProtKB:P32958, ECO:0000305|PubMed:1610568}; Multi-pass membrane protein. Photoreceptor outer segment membrane; Multi-pass membrane protein
Tissue Location	Retina photoreceptors (at protein level) (PubMed:1610568, PubMed:8504299). In rim region of ROS disks (PubMed:1610568).

Background

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