

IMPG2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56337

Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Physical State Immunogen Epitope Specificity Isotype Purity	IHC-P, IHC-F, IF, ICC, E Q9BZV3 Rat, Bovine Rabbit Polyclonal 138621 Liquid KLH conjugated synthetic peptide derived from human IMPG2 951-1050/1241 IgG affinity purified by Protein A
Buffer SUBCELLULAR LOCATION SIMILARITY Post-translational modifications DISEASE	 D.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Membrane; Single pass type I membrane protein Contains 2 EGF-like domains.Contains 2 SEA domains. Highly glycosylated (N- and O-linked carbohydrates). Retinitis pigmentosa 56 (RP56) [MIM:613581]: A retinal dystrophy belonging to the group of pigmentary retinopathies. Retinitis pigmentosa is characterized by retinal pigment deposits visible on fundus examination an primary loss of rod photoreceptor cells followed by secondary loss of cone photoreceptors. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. Note=The disease is caused by mutations affecting the gene represented in this entry.Maculopathy, IMPG2-related (MACLP-IMPG2) [MIM:613581]: A mild maculopathy characterized by full-field electroretinogram responses within normal limits, normal color vision, elevation of the photoreceptor layer in the senter.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	he protein encoded by this gene binds chondroitin sulfate and hyaluronan nd is a proteoglycan. The encoded protein plays a role in the organization of ne interphotoreceptor matrix and may promote the growth and maintenance f the light-sensitive photoreceptor outer segment. Defects in this gene are a ause of retinitis pigmentosa type 56 and maculopathy, MPG2-related.[provided by RefSeq, Mar 2011]

Additional Information

Other Names	Interphotoreceptor matrix proteoglycan 2, Interphotoreceptor matrix proteoglycan of 200 kDa, IPM 200, Sialoprotein associated with cones and rods proteoglycan, Spacrcan, IMPG2, IPM200
Target/Specificity	Expressed in the retina. Expressed by photoreceptors of the interphotoreceptor matrix (IPM) surrounding both rods and cones. IPM occupies the subretinal space between the apices of the retinal pigment epithelium and the neural retina. Detected in the pineal gland.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000- 10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	IMPG2
Synonyms	IPM200
Function	Chondroitin sulfate- and hyaluronan-binding proteoglycan involved in the organization of interphotoreceptor matrix; may participate in the maturation and maintenance of the light-sensitive photoreceptor outer segment. Binds heparin.
Cellular Location	Photoreceptor outer segment membrane; Single-pass type I membrane protein. Photoreceptor inner segment membrane {ECO:0000250 UniProtKB:Q80XH2}; Single-pass type I membrane protein. Secreted, extracellular space, extracellular matrix, interphotoreceptor matrix
Tissue Location	Expressed in the retina (at protein level) (PubMed:10702256, PubMed:29777959). Expressed by photoreceptors of the interphotoreceptor matrix (IPM) surrounding both rods and cones (at protein level) (PubMed:10542133, PubMed:29777959). IPM occupies the subretinal space between the apices of the retinal pigment epithelium and the neural retina (PubMed:10542133). Expressed in the pineal gland (at protein level) (PubMed:10702256).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.