abcam

Product datasheet

Anti-PRPH2/RDS antibody ab122057

2 Images

Overview

Product name	Anti-PRPH2/RDS antibody
Description	Rabbit polyclonal to PRPH2/RDS
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to Human PRPH2/RDS aa 124-248. Database link: P23942
Positive control	WB: Over-expression Lysate (co-expressed with a C terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells) IHC-P: Human retina tissue
General notes	This product was previously labelled as PRPH2

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab122057** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

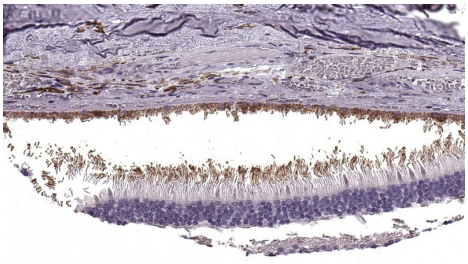
Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml.
IHC-P		1/2500 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	May function as an adhesion molecule involved in stabilization and compaction of outer segment disks or in the maintenance of the curvature of the rim. It is essential for disk morphogenesis.
Tissue specificity	Retina (photoreceptor). In rim region of ROS (rod outer segment) disks.
Involvement in disease	Defects in PRPH2 are the cause of retinitis pigmentosa type 7 (RP7) [MIM:608133]. RP leads to degeneration of retinal photoreceptor cells. 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. Defects in PRPH2 are a cause of retinitis punctata albescens [MIM:136880]. Defects in PRPH2 are a cause of adult-onset vitelliform macular dystrophy (AVMD) [MIM:608161]. AVMD is a rare autosomal dominant disorder with incomplete penetrance and highly variable expression. Patients usually become symptomatic in the fourth or fifth decade of life with a protracted disease of decreased visual acuity. Defects in PRPH2 are a cause of patterned dystrophy of retinal pigment epithelium (PDREP) [MIM:169150]. Patterned dystrophies of the retinal pigment epithelium (RPE) refer to a heterogeneous group of macular disorders. Three main types of PDREP have been described: reticular (fishnet-like) dystrophy, macroreticular (spider-shaped) dystrophy and butterfly-shaped pigment dystrophy. Defects in PRPH2 are a cause of choroidal dystrophy central areolar type 2 (CACD2) [MIM:613105]. It is a disorder which affects the posterior pole of the eye, and early lesions consist of a non-specific area of granular hyperpigmentation at the fovea. The characteristic sign of the disorder, a zone of atrophy that develops in the macula of the eye and involves the retinal pigment epithelium and the choriocapillaris, occurs several decades after onset. Note=Defects in PRPH2 are found in different retinal diseases including cone-rod dystrophy,

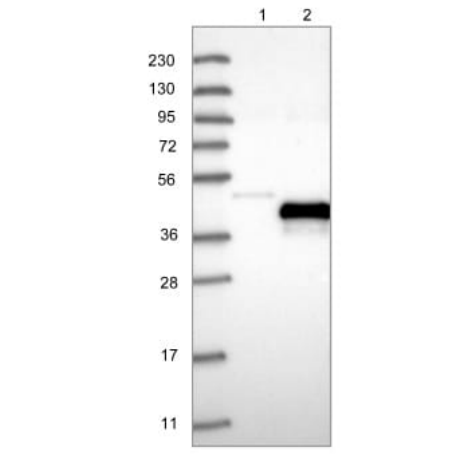
	retinitis pigmentosa, macular degeneration. The mutations underlying autosomal dominant retinitis pigmentosa and severe macular degeneration are largely missense or small in-frame deletions in a large intradiscal loop between the third and fourth transmembrane domains. In contrast, those associated with the milder pattern phenotypes or with digenic RP are scattered more evenly through the gene and are often nonsense mutations. This observation correlates with the hypothesis that the large loop is an important site of interaction between PRPH2 molecules and other protein components in the disk.
Sequence similarities	Belongs to the PRPH2/ROM1 family.
Cellular localization	Membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRPH2/RDS antibody (ab122057)

Immunohistochemical analysis of human retina tissue labeling PRPH2/RDS with ab122057 at a 1/2500 dilution.



Western blot - Anti-PRPH2/RDS antibody (ab122057)

All lanes : Anti-PRPH2/RDS antibody (ab122057) at 1/250 dilution

Lane 1 : Negative control (vector only transfected HEK293T lysate)

Lane 2 : Over expression Lysate (co-expressed with a C terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells)

Developed using the ECL technique.

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