

Rhodopsin Antibody

Rabbit mAb

Catalog # AP91190

Product Information

Application	WB, IHC
Primary Accession	P08100
Reactivity	Rat, Human
Clonality	Monoclonal
Other Names	CSNBAD1; OPN2; opsd; Opsin 2 rod pigment; Opsin2; Retinitis pigmentosa 4 autosomal dominant; RHO; Rhodopsin; RP4;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	38893

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Rhodopsin
Description	Photoreceptor required for image-forming vision at low light intensity. Required for photoreceptor cell viability after birth. Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change leading to G-protein activation and release of all-trans retinal.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

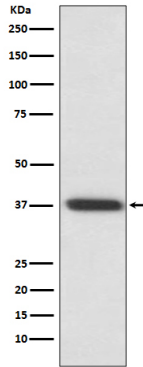
Name	RHO
Synonyms	OPN2
Function	Photoreceptor required for image-forming vision at low light intensity (PubMed: 7846071 , PubMed: 8107847). Required for photoreceptor cell viability after birth (PubMed: 12566452 , PubMed: 2215617). Light- induced isomerization of the chromophore 11-cis-retinal to all-trans- retinal triggers a conformational change that activates signaling via G-proteins (PubMed: 26200343 , PubMed: 28524165 , PubMed: 28753425 , PubMed: 8107847). Subsequent receptor phosphorylation mediates displacement of the bound G-protein alpha subunit by the arrestin SAG and terminates signaling (PubMed: 26200343 , PubMed: 28524165).
Cellular Location	Membrane; Multi-pass membrane protein. Cell projection, cilium, photoreceptor outer segment. Note=Synthesized in the inner segment (IS) of

rod photoreceptor cells before vectorial transport to disk membranes in the rod outer segment (OS) photosensory cilia

Tissue Location

Rod shaped photoreceptor cells which mediate vision in dim light

Images



Western blot analysis of Rhodopsin expression in rat eyeball lysate.

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