

Rhodopsin Antibody
Rabbit mAb
Catalog # AP91190**Specification**

Rhodopsin Antibody - Product Information

Application	WB, IHC
Primary Accession	P08100
Reactivity	Rat
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 Da

Rhodopsin Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500
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.

Rhodopsin Antibody - 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:7846071).

href="http://www.uniprot.org/citations/12566452" target="_blank">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

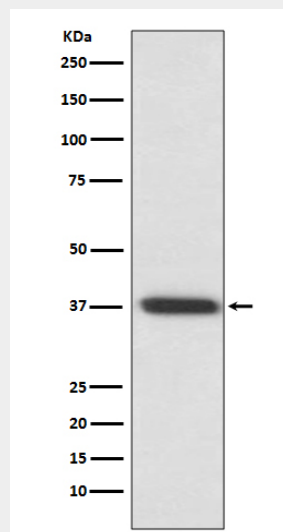
Rod shaped photoreceptor cells which mediate vision in dim light

Rhodopsin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rhodopsin Antibody - Images



Western blot analysis of Rhodopsin expression in rat eyeball lysate.