

Rhodopsin / RHO Antibody (clone B630)
Mouse Monoclonal Antibody
Catalog # ALS16827**Specification**

Rhodopsin / RHO Antibody (clone B630) - Product Information

Application	WB, IHC-P, IF, ICC
Primary Accession	P08100
Other Accession	6010
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	38893
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A

Rhodopsin / RHO Antibody (clone B630) - Additional Information**Gene ID** 6010**Other Names**

RHO, CSNBAD1, OPN2, Rhodopsin, RP4, Opsin 2, rod pigment, Opsin-2

Reconstitution & Storage

PBS, 10 mM sodium azide. +4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

Rhodopsin / RHO Antibody (clone B630) is for research use only and not for use in diagnostic or therapeutic procedures.

Rhodopsin / RHO Antibody (clone B630) - 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:2215617).

[26200343](http://www.uniprot.org/citations/26200343), PubMed:<[28524165](http://www.uniprot.org/citations/28524165)>, PubMed:<[28753425](http://www.uniprot.org/citations/28753425)>, PubMed:<[8107847](http://www.uniprot.org/citations/8107847)>). Subsequent receptor phosphorylation mediates displacement of the bound G-protein alpha subunit by the arrestin SAG and terminates signaling (PubMed:<[26200343](http://www.uniprot.org/citations/26200343)>, PubMed:<[28524165](http://www.uniprot.org/citations/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

Volume

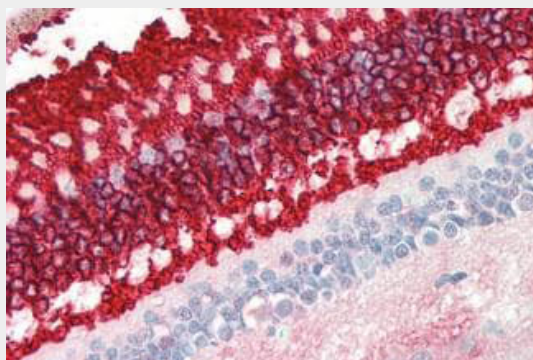
50 µl

Rhodopsin / RHO Antibody (clone B630) - Protocols

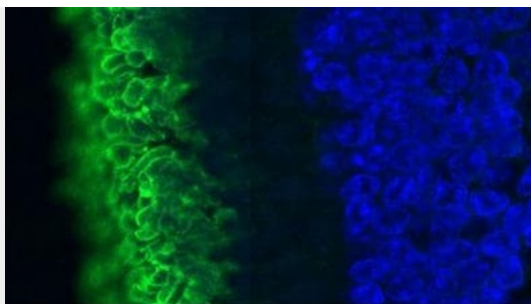
Provided below are standard protocols that you may find useful for product applications.

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

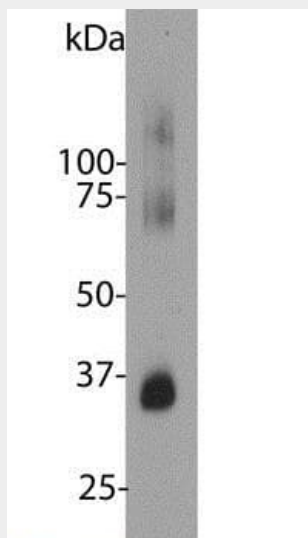
Rhodopsin / RHO Antibody (clone B630) - Images



Anti-Rhodopsin / RHO antibody IHC staining of human retina.



High magnification confocal image of pig retinal section stained with Rhodopsin / RHO antibody...



Blot of bovine retinal extracts probed with Rhodopsin / RHO antibody.

Rhodopsin / RHO Antibody (clone B630) - Background

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.

Rhodopsin / RHO Antibody (clone B630) - References

- Nathans J., et al. Proc. Natl. Acad. Sci. U.S.A. 81:4851-4855(1984).
Suwa M., et al. Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Bennett J., et al. Gene 167:317-320(1995).
Al-Maghteh M., et al. Hum. Mutat. 2:249-255(1993).