

Rhodopsin Polyclonal Antibody
Catalog # AP72269**Specification**

Rhodopsin Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P08100
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Rhodopsin Polyclonal Antibody - Additional Information**Gene ID** 6010**Other Names**

RHO; OPN2; Rhodopsin; Opsin-2

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Rhodopsin Polyclonal 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: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:8107847).

href="http://www.uniprot.org/citations/26200343" target="_blank">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

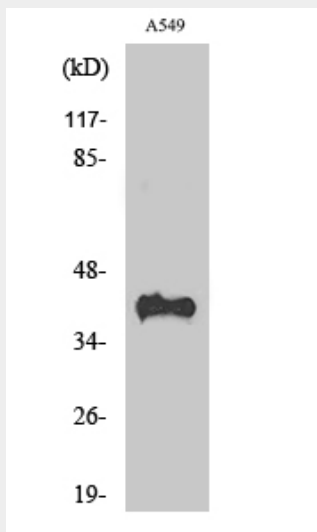
Rod shaped photoreceptor cells which mediate vision in dim light

Rhodopsin Polyclonal 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 Polyclonal Antibody - Images



Rhodopsin Polyclonal Antibody - Background

Photoreceptor required for image-forming vision at low light intensity (PubMed:8107847, PubMed:7846071). Required for photoreceptor cell viability after birth (PubMed:2215617, PubMed:12566452). Light-induced isomerization of the chromophore 11-cis-retinal to all-trans-retinal triggers a conformational change that activates signaling via G-proteins (PubMed:8107847, PubMed:28524165, PubMed:26200343, PubMed:28753425). Subsequent receptor phosphorylation mediates displacement of the bound G- protein alpha subunit by the arrestin SAG and terminates signaling (PubMed:28524165, PubMed:26200343).