

Anti-Rhodopsin (pS334) Antibody
Rabbit polyclonal antibody to Rhodopsin (pS334)
Catalog # AP61446**Specification**

Anti-Rhodopsin (pS334) Antibody - Product Information

Application	WB, IHC
Primary Accession	P08100
Other Accession	P15409
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38893

Anti-Rhodopsin (pS334) Antibody - Additional Information**Gene ID** 6010**Other Names**

OPN2; Rhodopsin; Opsin-2

Target/Specificity

Recognizes endogenous levels of Rhodopsin with a site at pS334 protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Rhodopsin (pS334) 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: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

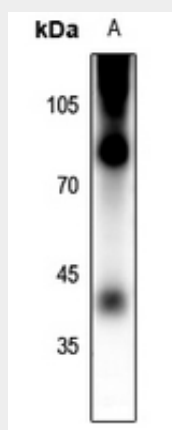
Rod shaped photoreceptor cells which mediate vision in dim light

Anti-Rhodopsin (pS334) Antibody - Protocols

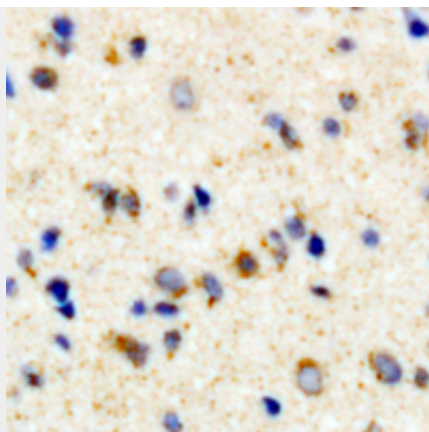
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Rhodopsin (pS334) Antibody - Images



Western blot analysis of Rhodopsin (pS334) expression in mouse eyes (A) whole cell lysates.



Immunohistochemical analysis of Rhodopsin (pS334) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Rhodopsin (pS334) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Rhodopsin with a site at pS334. The exact sequence is proprietary.