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Anti-Rhodopsin (pS334) Antibody

Rabbit polyclonal antibody to Rhodopsin (pS334)
Catalog # AP61446

Product Information

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

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

Protein Information

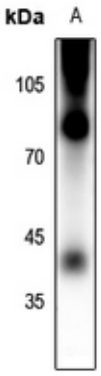
Name	RHO
Synonyms	OPN2
Function	Photoreceptor required for image-forming vision at low light intensity (PubMed:7846071, PubMed:8107847). Required for photoreceptor cell viability after birth (PubMed:12566452, PubMed:2215617). Light- induced isomerization of the chromophore 11-cis-retinal to all-trans- 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

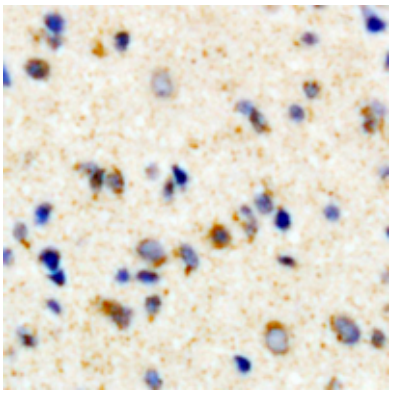
Background

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.

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.