

## Rhodopsin (Phospho Ser334) Rabbit pAb

CatalogNo: YP0966

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, ELISA

#### MW

- 39kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Rhodopsin around the phosphorylation site of Ser334. AA range:299-348

**Specificity** Phospho-Rhodopsin (S334) Polyclonal Antibody detects endogenous levels of Rhodopsin protein only when phosphorylated at S334. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):DAsAT

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## | Target Information

**Gene name** RHO

**Protein Name** Rhodopsin

Organism	Gene ID	UniProt ID
Human	<a href="#">6010</a> ;	<a href="#">P08100</a> ;
Mouse	<a href="#">212541</a> ;	<a href="#">P15409</a> ;
Rat	<a href="#">24717</a> ;	<a href="#">P51489</a> ;

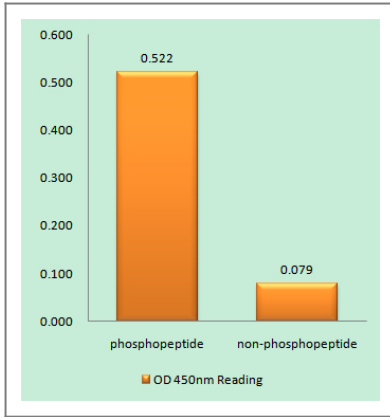
**Cellular Localization** Membrane ; Multi-pass membrane protein . Cell projection , cilium , photoreceptor outer segment . Synthesized in the inner segment (IS) of rod photoreceptor cells before vectorial transport to disk membranes in the rod outer segment (OS) photosensory cilia. .

**Tissue specificity** Rod shaped photoreceptor cells which mediate vision in dim light.

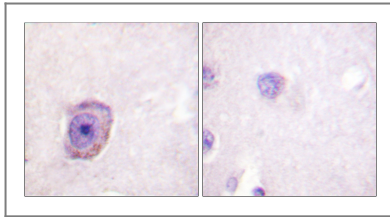
**Function** Disease:Defects in RHO are a cause of retinitis pigmentosa autosomal recessive (ARRP) [MIM:268000]. ,Disease:Defects in RHO are the cause of congenital stationary night blindness autosomal dominant type 1 (CSNBAD1) [MIM:610445]; also known as rhodopsin-related congenital stationary night blindness. Congenital stationary night blindness is a non-progressive retinal disorder characterized by impaired night vision. ,Disease:Defects in RHO are the cause of retinitis pigmentosa type 4 (RP4) [MIM:180380]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses , they lose their far peripheral visual field and eventually central vision as well. RP4 inheritance is autosomal dominant. ,Function: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. ,online information:Retina International's Scientific Newsletter ,online information:Rhodopsin entry ,online information:Rhodopsin mutations page ,PTM:Phosphorylated on some or all of the serine and threonine residues present in the C-terminal region. ,similarity:Belongs to the G-protein coupled receptor 1 family. Opsin subfamily. ,tissue specificity:Rod shaped photoreceptor cells which mediates vision in dim light. ,

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## | Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Rhodopsin (Phospho-Ser334) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Rhodopsin (Phospho-Ser334) Antibody. The picture on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**Rhodopsin (Phospho Ser334) Rabbit pAb**

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