

Recoverin Polyclonal Antibody

Catalog # AP72220

Product Information

Application WB, IHC-P, IF **Primary Accession** P35243

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW23130

Additional Information

Gene ID 5957

Other Names RCVRN; RCV1; Recoverin; Cancer-associated retinopathy protein; Protein CAR

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other

applications. IHC-P~~N/A IF~~1:50~200

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

azide.

Storage Conditions -20°C

Protein Information

Name RCVRN

Synonyms RCV1

Function Acts as a calcium sensor and regulates phototransduction of cone and rod

photoreceptor cells (By similarity). Modulates light sensitivity of cone photoreceptor in dark and dim conditions (By similarity). In response to high Ca(2+) levels induced by low light levels, prolongs RHO/rhodopsin activation in rod photoreceptor cells by binding to and inhibiting GRK1-mediated phosphorylation of RHO/rhodopsin (By similarity). Plays a role in scotopic vision/enhances vision in dim light by enhancing signal transfer between rod

photoreceptors and rod bipolar cells (By similarity). Improves rod photoreceptor sensitivity in dim light and mediates response of rod

photoreceptors to facilitate detection of change and motion in bright light (By

similarity).

Cellular Location Photoreceptor inner segment {ECO:0000250 | UniProtKB:P34057}. Cell

projection, cilium, photoreceptor outer segment

{ECO:0000250 | UniProtKB:P34057}. Photoreceptor outer segment membrane

{ECO:0000250 | UniProtKB:P21457}; Lipid-anchor {ECO:0000250 | UniProtKB:P21457}; Cytoplasmic side {ECO:0000250 | UniProtKB:P21457}. Perikaryon {ECO:0000250 | UniProtKB:P34057}. Note=Primarily expressed in the inner segments of light-adapted rod photoreceptors, approximately 10% of which translocates from photoreceptor outer segments upon light stimulation (By similarity). Targeting of myristoylated protein to rod photoreceptor outer segments is calcium dependent (By similarity) {ECO:0000250 | UniProtKB:P34057}

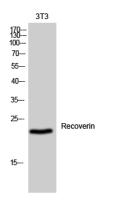
Tissue Location

Retina and pineal gland.

Background

Seems to be implicated in the pathway from retinal rod guanylate cyclase to rhodopsin. May be involved in the inhibition of the phosphorylation of rhodopsin in a calcium-dependent manner. The calcium-bound recoverin prolongs the photoresponse.

Images



Western Blot analysis of 3T3 cells using Recoverin Polyclonal Antibody

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