

# **Recoverin Polyclonal Antibody**

**Catalog # AP72220** 

#### **Specification**

## **Recoverin Polyclonal Antibody - Product Information**

Application WB, IHC-P, IF
Primary Accession P35243
Reactivity Human, Mouse

Host Rabbit Clonality Polyclonal

## **Recoverin Polyclonal Antibody - 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

## **Recoverin Polyclonal Antibody - 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:P21457, ECO:0000250|UniProtKB:P34057}

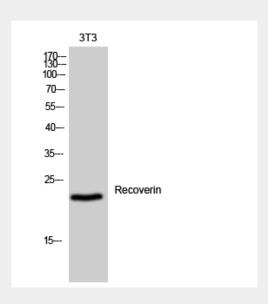
**Tissue Location**Retina and pineal gland.

# **Recoverin Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **Recoverin Polyclonal Antibody - Images**



Western Blot analysis of 3T3 cells using Recoverin Polyclonal Antibody

#### Recoverin Polyclonal Antibody - 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.