

Anti-Recoverin Antibody

Catalog # AP60720

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P35243
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23130

Additional Information

Gene ID	5957
Other Names	RCV1; Recoverin; Cancer-associated retinopathy protein; Protein CAR
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Recoverin. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

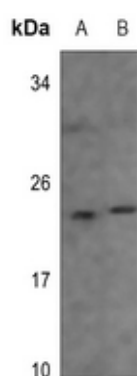
Protein Information

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

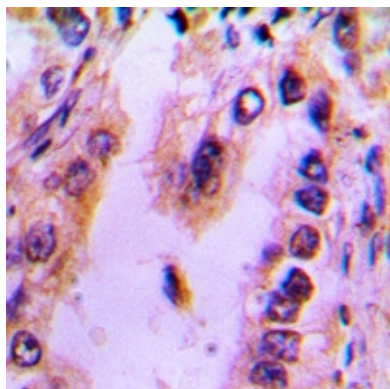
projection, cilium, photoreceptor outer segment
 {ECO:0000250|UniProtKB:P34057}. Photoreceptor outer segment membrane
 {ECO:0000250|UniProtKB:P21457}; Lipid-anchor
 {ECO:0000250|UniProtKB:P21457}; Cytoplasmic side
 {ECO:0000250|UniProtKB:P21457}. Perikaryon
 {ECO:0000250|UniProtKB:P34057}. Note=Primarily 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.

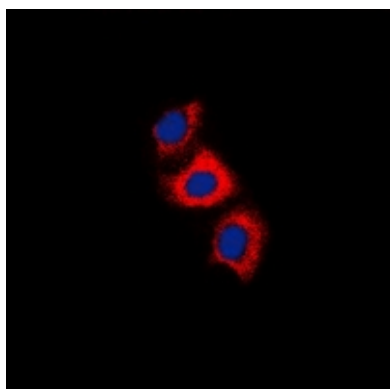
Images



Western blot analysis of Recoverin expression in mouse testis (A), rat testis (B) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 23 kD)

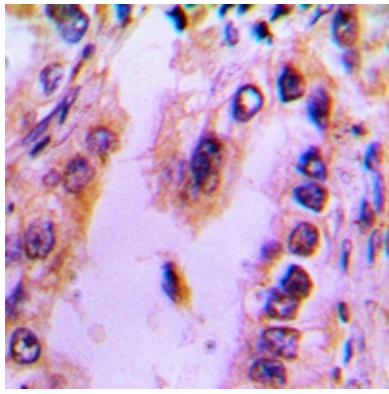


Immunohistochemical analysis of Recoverin staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected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



Immunofluorescent analysis of Recoverin staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.