10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RCVRN Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20666c

Product Information

Application	WB, E
Primary Accession	P35243
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB47778
Calculated MW	23130

Additional Information

Gene ID	5957
Other Names	Recoverin, Cancer-associated retinopathy protein, Protein CAR, RCVRN, RCV1
Target/Specificity	This RCVRN antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 137-171 amino acids from the C-terminal region of human RCVRN.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RCVRN Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

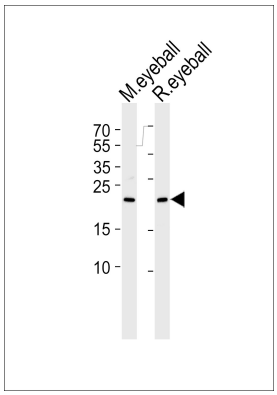
Background

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.

References

Murakami A.,et al.Biochem. Biophys. Res. Commun. 187:234-244(1992).
Wiechmann A.F.,et al.Exp. Eye Res. 56:463-470(1993).
Thirkill C.E.,et al.Invest. Ophthalmol. Vis. Sci. 33:2768-2772(1992).
Matsubara S.,et al.Br. J. Cancer 74:1419-1422(1996).
Polans A.S.,et al.J. Cell Biol. 112:981-989(1991).

Images



Western blot analysis of lysates from mouse eyeball and rat eyeball tissue lysate (from left to right), using RCVRN Antibody (C-term)(Cat. #AP20666c). AP20666c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

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