RCV1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RCV1, Monoclonal Antibody
Full Product Name	RCV1 (Recoverin, RCV1) (MaxLight 750)
Product Gene Name	anti-RCV1 antibody
Product Synonym Names	Recoverin; RCV1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	5A6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes RCV1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	23,130 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (9801027..9808684, complement). Location: 17p13.1
OMIM	179618
3D Structure	ModBase 3D Structure for P35243
Immunogen	RCV1 (NP_002894.1, 101aa-199aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KLEWAFSLYDVDGNGTISKNEVLEIVMAIFKMITPEDVKLLPDDENTPEKRAEKIWKYFGKNDDDKLTEKEFIEGTLANKEILRLIQFEPQKVKEKMKN
Conjugate	MaxLight750
Product Categories/Family for anti-RCV1 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-RCV1 antibody	Western Blot (WB)
Application Notes for anti-RCV1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-RCV1 antibody	This gene encodes a member of the recoverin family of neuronal calcium sensors. The encoded protein contains three calcium-binding EF-hand domains and may prolong the termination of the phototransduction cascade in the retina by blocking the phosphorylation of photo-activated rhodopsin. Recoverin may be the antigen responsible for cancer-associated retinopathy. [provided by RefSeq]
Other Notes	Small volumes of anti-RCV1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RCV1 purchase	MBS6240297 is an antibody targeting RCV1. Also known as RCV1 (Recoverin, RCV1) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RCV1. It may not necessarily be applicable to this product.

NCBI GI #	4506459
NCBI GeneID	5957
NCBI Accession #	NP_002894.1
UniProt Primary Accession #	P35243
UniProt Related Accession #	P35243
GenBank Nucleotide #	NM_002903.2
NCBI Official Full Name	recoverin
NCBI Official Synonym Full Names	recoverin
NCBI Official Symbol	RCVRN
NCBI Official Synonym Symbols	RCV1
UniProt Protein Name	Recoverin
UniProt Synonym Protein Names	Cancer-associated retinopathy protein
UniProt Gene Name	RCVRN
UniProt Synonym Gene Names	RCV1; Protein CAR
UniProt Entry Name	RECO_HUMAN
NCBI Protein Information	recoverin; cancer associated retinopathy antigen; cancer-associated retinopathy protein
UniProt Comments for RCV1	RCV1: 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. Belongs to the recoverin family. Protein type: Calcium-binding Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: dendrite Molecular Function: calcium sensitive guanylate cyclase activator activity; calcium ion binding Biological Process: rhodopsin mediated signaling; phototransduction, visible light; regulation of rhodopsin mediated signaling; visual perception; positive regulation of guanylate cyclase activity; regulation of calcium ion transport; signal transduction
Research Articles on RCV1	**1.** C39D substitution reduces alpha-helical content, decreases thermal stability and suppresses membrane association.

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