CRMP1 Positive Control

PRODUCT OVERVIEW

Product Name	CRMP1, Positive Control
Full Product Name	CRMP1 Antibody Positive Control
Product Gene Name	CRMP1 positive control
Product Synonym Names	Collapsin response mediator protein 1; CRMP 1; Dihydropyrimidinase like 1; Dihydropyrimidinase related protein 1; DPYSL1; DRP 1; ULIP-3; Unc-33-like phosphoprotein 3 antibody
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: CRMP1 (MBS540479) Positive Control: CRMP1 (MBS542657)
Matching Pairs	Antibody: CRMP1 (MBS541313) Positive Control: CRMP1 (MBS542657)
Matching Pairs	Antibody: CRMP1 (MBS541314) Positive Control: CRMP1 (MBS542657)
Molecular Weight	62,168 Da
Immunogen	Purified Protein
Molecular Function	Neuron Development; Pyrimidine nucleobase catabolic process
Subcellular Location	Cytoplasm; Dendrite; Neuronal cell body
Applications Tested/Suitable for CRMP1 positive control	Western Blot (WB)
Application Notes for CRMP1 positive control	Western Blot: 1:500
Related Product Information for CRMP1 positive control	Western Blot Positive Control Collapsin response mediated protein 1 Hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amides
Other Notes	Small volumes of CRMP1 positive control 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 CRMP1 purchase	MBS542657 is a positive control targeting CRMP1. Also known as CRMP1 Antibody Positive Control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRMP1. It may not necessarily be applicable to this product.

NCBI GI #	148705577
NCBI GeneID	12933
NCBI Accession #	EDL37524.1
UniProt Secondary Accession #	O08554; O35097
UniProt Related Accession #	P97427
NCBI Official Full Name	collapsin response mediator protein 1, isoform CRA_c

NCBI Official Synonym Full Names	collapsin response mediator protein 1
NCBI Official Symbol	Crmp1
NCBI Official Synonym Symbols	DRP-1; Ulip3; CRMP-1; Dpysl1; ULIP-3
UniProt Protein Name	Dihydropyrimidinase-related protein 1
UniProt Synonym Protein Names	Collapsin response mediator protein 1; CRMP-1; Unc-33-like phosphoprotein 3; ULIP-3
Protein Family	Dihydropyrimidinase-related protein
UniProt Gene Name	Crmp1
UniProt Synonym Gene Names	Dpysl1; Ulip3; DRP-1; CRMP-1; ULIP-3
UniProt Entry Name	DPYL1_MOUSE
NCBI Protein Information	dihydropyrimidinase-related protein 1
NCBI Summary for CRMP1	This gene encodes a protein that is part of the collapsin response mediator protein family. The family is comprised of five, homologous cytosolic phosphoproteins that are expressed in developing and adult nervous tissue and mediate signaling to transduce responses to extracellular cues. This protein is a Semaphorin 3A signaling molecule that regulates collapse of the growth cone. The growth cone mediates axonal pathfinding in neurons. This protein is reported to represent a new class of microtubule-associated proteins. In humans this protein is reported to inhibit cancer cell invasion. In mouse deficiency of this gene may be associated with impaired spatial memory performance. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]
UniProt Comments for CRMP1	CRMP-1: Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cytoskeletal; Hydrolase Cellular Component: cell soma; cytoplasm; dendrite; filamentous actin; growth cone Molecular Function: filamin binding; phosphoprotein binding
Research Articles on CRMP1	**1.** LCRMP-1 and CRMP-1 have opposing functions in regulating cancer cell invasion and metastasis
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