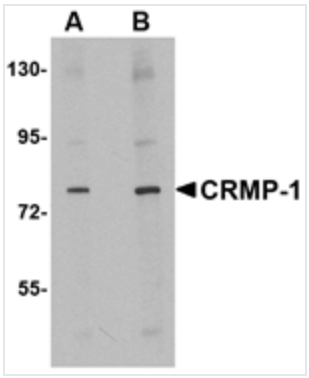
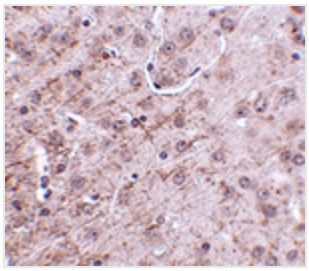
CRMP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRMP1, Polyclonal Antibody
Full Product Name	CRMP1 Antibody
Product Gene Name	anti-CRMP1 antibody
Product Synonym Names	Collapsin response mediator protein 1, DRP-1, dihydropyropyrimidinase-related protein 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Specificity	This antibody is expected to recognize only the longest isoform of CRMP-1.
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	74,262 Da
OMIM	602462
Immunogen Type	Peptide
Immunogen Description	Raised against a 18 amino acid peptide from near the amino terminus of human CRMP1.
Target Name	CRMP1
Product Categories/Family for anti-CRMP1 antibody	Total protein Ab
Applications Tested/Suitable for anti-CRMP1 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-CRMP1 antibody	Collapsin-response mediator proteins (CRMPs) are highly expressed in the developing brain where they play major roles in axonal outgrowth, neurite differentiation, and apoptosis. Their continued expression in areas of high synaptic remodeling such as the cerebellum, hippocampus, and the olfactory system suggests that these proteins may also be involved in adult brain plasticity. CRMP-1 was initially identified as a dihydro-pyrimidinase expressed exclusively in brain; later studies have shown that it is involved with neurotrophin (NT) 3-induced neurite formation and outgrowth. CRMP-1 localization switches from axonal to somatodendritic when neurons reach functional maturity, suggesting that it is involved in early neuronal differentiation as well as in later processes related to the survival or death of the newly generated neurons.
Other Notes	Small volumes of anti-CRMP1 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 CRMP1 purchase	MBS9412119 is an antibody targeting CRMP1. Also known as CRMP1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CRMP1 antibody
Western blot analysis of CRMP1 in rat brain tissue lysate with CRMP1 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry (IHC) of anti-CRMP1 antibody
Immunohistochemistry of CRMP-1 in mouse brain tissue with CRMP-1 antibody at 2.5 ug/mL.

ADDITIONAL DETAILS

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

NCBI GI #	14043246
NCBI GeneID	1400
NCBI Accession #	AAH07613
UniProt Secondary Accession #	Q13024; Q4W5F1; Q96TC8; A0EJG6
UniProt Related Accession #	Q14194
NCBI Official Full Name	Collapsin response mediator protein 1
NCBI Official Synonym Full Names	collapsin response mediator protein 1
NCBI Official Symbol	CRMP1
NCBI Official Synonym Symbols	DRP1; DRP-1; 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_HUMAN
NCBI Protein Information	dihydropyrimidinase-related protein 1
NCBI Summary for CRMP1	This gene encodes a member of a family of cytosolic phosphoproteins expressed exclusively in the nervous system. The encoded protein is thought to be a part of the semaphorin signal transduction pathway implicated in semaphorin-induced growth cone collapse during neural development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

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; Hydrolase; Cytoskeletal Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: cell soma; dendrite; cytoplasm; microtubule organizing center; spindle; cytosol Molecular Function: hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amides; protein binding Biological Process: axon guidance; nervous system development; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; pyrimidine base catabolic process
Research Articles on CRMP1	**1.** in pilocarpine-induced animal model of epilepsy, CRMP-1 dynamically decreased in a range of 2 months. Thus, our results indicate that CRMP-1 may be involved in the development of TLE
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