CRMP-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRMP-2, Polyclonal Antibody
Full Product Name	CRMP-2 (Phospho Ser522) Rabbit pAb
Product Gene Name	anti-CRMP-2 antibody
Product Synonym Names	DPYSL2; CRMP2; ULIP2; Dihydropyrimidinase-related protein 2; DRP-2; Collapsin response mediator protein 2; CRMP-2; N2A3; Unc-33-like phosphoprotein 2; ULIP-2; DPYSL2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C for 1 year.
OMIM	602463
3D Structure	ModBase 3D Structure for Q16555
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human CRMP-2 (phospho Ser522)
Cellular Localization	Cytoplasm, Cytoskeleton, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CRMP-2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CRMP-2 antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-CRMP-2 antibody	MBS8540659 is an antibody targeting CRMP-2. Also known as CRMP-2 (Phospho Ser522) Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CRMP-2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRMP-2. It may not necessarily be applicable to this product.

NCBI GI #	308818195
NCBI GeneID	1808
NCBI Accession #	NP_001184222.1
UniProt Primary Accession #	Q16555
UniProt Related Accession #	Q16555
GenBank Nucleotide #	NP_001184222.1

NCBI Official Full Name	dihydropyrimidinase-related protein 2 isoform 1
NCBI Official Synonym Full Names	dihydropyrimidinase like 2
NCBI Official Symbol	DPYSL2
NCBI Official Synonym Symbols	DRP2; N2A3; CRMP2; DRP-2; ULIP2; CRMP-2; DHPRP2; ULIP-2
UniProt Protein Name	Dihydropyrimidinase-related protein 2
UniProt Synonym Protein Names	Collapsin response mediator protein 2; CRMP-2; N2A3; Unc-33-like phosphoprotein 2
UniProt Gene Name	DPYSL2
UniProt Synonym Gene Names	CRMP2; ULIP2; DRP-2; CRMP-2; ULIP-2
UniProt Entry Name	DPYL2_HUMAN
NCBI Protein Information	dihydropyrimidinase-related protein 2
NCBI Summary for CRMP-2	This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for CRMP-2	CRMP-2: a microtubule-binding protein necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, neuronal growth cone collapse and cell migration. Homotetramer, and heterotetramer with CRMP1, CRMP-3, CRMP-4, or CRMP-5. Interacts through its C-terminus with the C-terminus of CYFIP1. Interacts with 5-hydroxytryptamine receptor 4 (5-HT(4)). Protein type: Motility/polarity/chemotaxis; Microtubule-binding Chromosomal Location of Human Ortholog: 8p22-p21 Cellular Component: microtubule; growth cone; cell soma; membrane; mitochondrion; dendrite; terminal button; cytosol Molecular Function: protein binding; dihydropyrimidinase activity; protein kinase binding Biological Process: response to drug; nervous system development; axon guidance; olfactory bulb development; response to amphetamine; synaptic vesicle transport; positive regulation of glutamate secretion; endocytosis; cytoskeleton organization and biogenesis; response to cocaine; signal transduction; pyrimidine base catabolic process; spinal cord development; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
Research Articles on CRMP-2	**1.** It demonstrates the enzyme/substrate nature of Ubc9/CRMP2 binding and identify hot spots on CRMP2 that may form the basis of future drug discovery campaigns disrupting the CRMP2-Ubc9 interaction to recapitulate allosteric regulation of NaV1.7 for pain relief.
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