

CRMP1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2793a**Specification**

CRMP1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [O14194](#)
Other Accession [NP_001014809](#)

CRMP1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 1400

Other Names

Dihydropyrimidinase-related protein 1, DRP-1, Collapsin response mediator protein 1, CRMP-1, Unc-33-like phosphoprotein 3, ULIP-3, CRMP1, DPYSL1, ULIP3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2793a](/products/AP2793a) was selected from the N-term region of human CRMP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CRMP1 Antibody (N-term) Blocking Peptide - Protein Information

Name CRMP1

Synonyms DPYSL1, ULIP3

Function

Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton (PubMed: [25358863](http://www.uniprot.org/citations/25358863)). Plays a role in axon guidance (PubMed: [25358863](http://www.uniprot.org/citations/25358863)). During the axon guidance process, acts downstream of SEMA3A to promote FLNA dissociation from F-actin which results in the rearrangement of the actin cytoskeleton and the collapse of the growth cone (PubMed: [25358863](http://www.uniprot.org/citations/25358863)). Involved in invasive growth and cell migration (PubMed: [11562390](http://www.uniprot.org/citations/11562390)).

target="_blank">11562390). May participate in cytokinesis (PubMed:19799413).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Cell projection, growth cone {ECO:0000250|UniProtKB:P97427}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P97427}. Perikaryon {ECO:0000250|UniProtKB:P97427}. Note=Associated with centrosomes and the mitotic spindle during metaphase (PubMed:11562390). Colocalizes with FLNA and tubulin in the central region of DRG neuron growth cone (By similarity). Following SEMA3A stimulation of DRG neurons, colocalizes with F-actin (By similarity) {ECO:0000250|UniProtKB:P97427, ECO:0000269|PubMed:11562390}

Tissue Location

Brain.

CRMP1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CRMP1 Antibody (N-term) Blocking Peptide - Images**CRMP1 Antibody (N-term) Blocking Peptide - Background**

Dihydropyrimidinase-related protein 1(CRMP1) is 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.

CRMP1 Antibody (N-term) Blocking Peptide - References

Wu,C.C., Mol. Cancer Ther. 7 (6), 1365-1375 (2008)Weidemann,W., FEBS Lett. 580 (28-29), 6649-6654 (2006)Cole,A.R., J. Biol. Chem. 281 (24), 16591-16598 (2006)Shih,J.Y., Clin. Exp. Metastasis 20 (1), 69-76 (2003)