

CRMP1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13760a**Specification**

CRMP1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q14194](#)**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 AP13760a was selected from the N-term region of 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)). May participate in cytokinesis (PubMed: [19799413](http://www.uniprot.org/citations/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**

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.

CRMP1 Antibody (N-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Ingersoll, R.G., et al. Eur. J. Hum. Genet. 18(6):726-732(2010) Mukherjee, J., et al. Cancer Res. 69(22):8545-8554(2009) Mopert, K., et al. Exp. Cell Res. 315(13):2165-2180(2009) Sandebring, A., et al. PLoS ONE 4 (5), E5701 (2009) :