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CRMP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13760a

Specification

CRMP1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q14194
Other Accession	NP_001304.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**62184**
Antigen Region	**82-110**

CRMP1 Antibody (N-term) - 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
This CRMP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 82-110 amino acids from the N-terminal region of human CRMP1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CRMP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CRMP1 Antibody (N-term) - Protein Information

Name CRMP1

Synonyms DPYSL1, ULIP3

Function Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton (PubMed:25358863). Plays a role in axon guidance (PubMed: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). Involved in invasive growth and cell migration (PubMed: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}

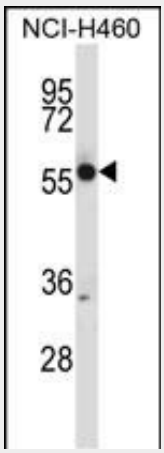
Tissue Location
Brain.

CRMP1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRMP1 Antibody (N-term) - Images



CRMP1 Antibody (N-term) (Cat. #AP13760a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the CRMP1 antibody detected the CRMP1 protein (arrow).

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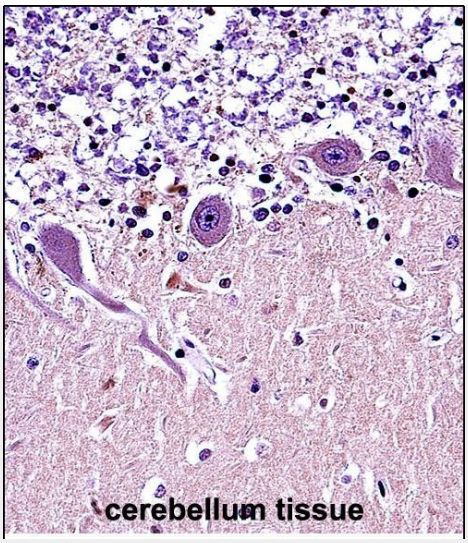

CRMP1 Antibody (N-term) (Cat. #AP13760a)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CRMP1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CRMP1 Antibody (N-term) - 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) - 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) :