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CRMP1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12705

Specification

CRMP1 Antibody (N-Terminus) - Product Information

Application	**IF, WB, IHC**
Primary Accession	Q14194
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**62kDa KDa**

CRMP1 Antibody (N-Terminus) - 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 antibody is expected to recognize only the longest isoform of CRMP-1.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

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

CRMP1 Antibody (N-Terminus) - 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}

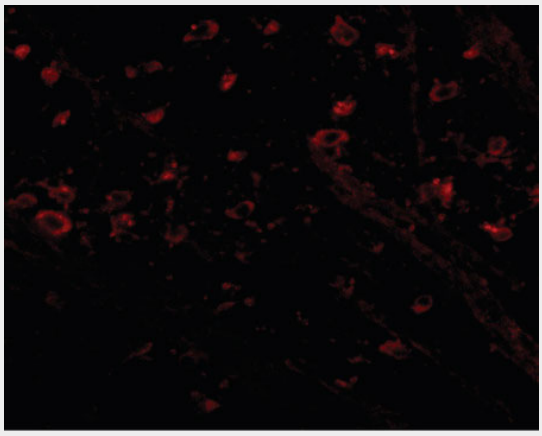
Tissue Location
Brain.

CRMP1 Antibody (N-Terminus) - Protocols

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

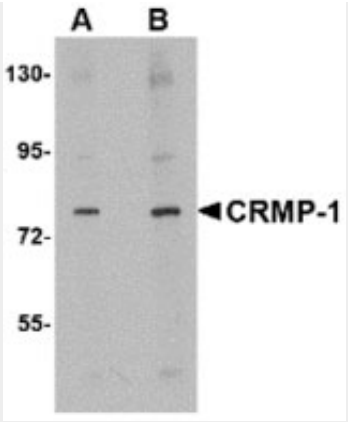
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRMP1 Antibody (N-Terminus) - Images

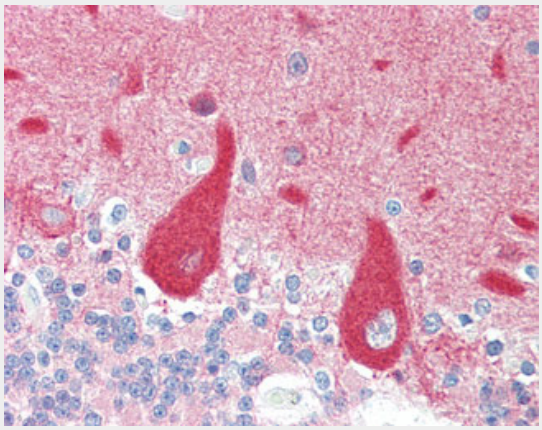


Immunofluorescence of CRMP1 in mouse brain tissue with CRMP1 antibody at 5 ug/ml.

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Western blot of CRMP1 in rat brain tissue lysate with CRMP1 antibody at (A) 1 and (B) 2 ug/ml.



Anti-CRMP1 antibody IHC of human brain, cerebellum.

CRMP1 Antibody (N-Terminus) - Background

Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. May participate in cytokinesis.

CRMP1 Antibody (N-Terminus) - References

Hamajima N.,et al.Gene 180:157-163(1996).
Pan S.-H.,et al.Lung Cancer 67:93-100(2010).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.