

**CRMP1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58483****Specification**

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**CRMP1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q14194</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CRMP1
Epitope Specificity	121-220/572
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Associated with centrosomes and the mitotic spindle during metaphase.
SIMILARITY	Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily.
SUBUNIT	Homotetramer, and heterotetramer with DPYSL2, DPYSL3, DPYSL4 or DPYSL5. Interacts with PLXNA1 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

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. [provided by RefSeq, Jul 2008].

**CRMP1 Polyclonal Antibody - Additional Information****Gene ID** 1400**Other Names**

Dihydropyrimidinase-related protein 1, DRP-1, Collapsin response mediator protein 1, CRMP-1,

Inactive dihydropyrimidinase, Unc-33-like phosphoprotein 3, ULIP-3, CRMP1, DPYSL1, ULIP3

**Target/Specificity**

Brain.

**Dilution**

WB~1:1000  
IHC-P~N/A  
IHC-F~N/A  
IF~1:50~200  
E~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**CRMP1 Polyclonal Antibody - 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 Polyclonal Antibody - Protocols**

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

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **CRMP1 Polyclonal Antibody - Images**