

CRMP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58483

Specification

CRMP1 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession 014194

Rat, Pig, Dog, Bovine Reactivity

Host Rabbit Clonality **Polyclonal** Calculated MW 62 KDa **Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

from human CRMP1

121-220/572 **Epitope Specificity**

Isotype laG **Purity**

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). 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 20081.

CRMP1 Polyclonal Antibody - Additional Information

Gene ID 1400

Important Note

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<br \> <span class
="dilution_IHC-P">IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> E~~N/A

Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ 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). 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

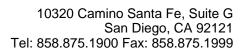
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Cell projection, growth cone {ECO:0000250|UniProtKB:P97427}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P97427}. Perikaryon {ECO:0000250|UniProtKB:P97427}. Note=Associated with centrosomes 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 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry





- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRMP1 Polyclonal Antibody - Images