

Rabbit CRMP-1 Polyclonal Antibody | anti-CRMP-1 antibody

Phospho-CRMP-1 (Tyr504) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329797	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (88%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CRMP-1; Polyclonal Antibody; Phospho-CRMP-1 (Tyr504) Antibody; Collapsin response mediator protein 1; CRMP 1; Crmp1; Dihydropyrimidinase like 1; Dihydropyrimidinase related protein 1; Dihydropyrimidinase-related protein 1; DPYL1_HUMAN; DPYSL1; DRP 1; DRP-1; DRP1; ULIP-3; Ulip3; Unc-33-like phosphoprotein 3; anti-CRMP-1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (88%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-CRMP-1 (Tyr504) Antibody detects endogenous levels of CRMP-1 only when phosphorylated at Tyr504. Tissue Specificity: Brain.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CRMP-1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CRMP-1 around the phosphorylation site of Tyr504.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation at Ser-522 enhances CRMP1-mediated alteration of FLNA ternary structure and FLNA dissociation from F-actin.
Subunit Structure	Homotetramer, and heterotetramer with DPYSL2, DPYSL3, DPYSL4 or DPYSL5 (By similarity). Interacts with PLXNA1 (By similarity). Interacts with FLNA (via calponin-homology (CH) domain 1 and filamin repeat 24); the interaction alters FLNA ternary structure and thus promotes FLNA dissociation from F-actin.
Similarity	Belongs to the metallo-dependent hydrolases superfamily. Hydantoinase/dihydropyrimidinase family.
Subcellular Location	Cytoplasm. Cytoplasm>Cytoskeleton>Microtubule organizing center>Centrosome. Cytoplasm>Cytoskeleton>Spindle. Cell projection>Growth cone. Cytoplasm>Cytoskeleton. Perikaryon. 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).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of CRMP-1 (Phospho-Tyr504) using Paclitaxel treated HeLa whole cell lysates. +/- means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from HepG2, using CRMP-1 (Phospho-Tyr504) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CRMP-1 antibody	Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance. 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. Involved in invasive growth and cell migration. May participate in cytokinesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3122031
NCBI GeneID	1400
UniProt Accession #	Q14194; Q13024; Q4W5F1; Q96TC8; A0EJG6
Molecular Weight	572
NCBI Official Full Name	Dihydropyrimidinase-related protein 1
NCBI Official Synonym Full Names	collapsin response mediator protein 1
NCBI Official Symbol	CRMP1
NCBI Official Synonym Symbols	DRP1; DRP-1; CRMP-1; DPYSL1; ULIP-3
NCBI Protein Information	dihydropyrimidinase-related protein 1; dihydropyrimidinase-like 1; unc-33-like phosphoprotein 3
UniProt Protein Name	Dihydropyrimidinase-related protein 1
UniProt Gene Name	CRMP1
UniProt Synonym Gene Names	DPYSL1; ULIP3; DRP-1; CRMP-1; ULIP-3
UniProt Entry Name	DPYL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/crmp-1-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329797>