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CRMP4 Rabbit pAb

Catalog # AP98949

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14195
Other Accession	Q14195
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61963
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CRMP4
Epitope Specificity	88-135/570
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily.
SUBUNIT	Homotetramer, and heterotetramer with CRMP1, DPYSL2, DPYSL4 or DPYSL5 (By similarity). Interacts with synaptic vesicle protein 2 and SH3A domain of intersectin (By similarity).
Post-translational modifications	Phosphorylation on Ser-522 by DYRK2 promotes subsequent phosphorylation on Thr-509, Thr-514 and Ser-518 by GSK3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The collapsin response mediator protein (CRMP) family of five cytosolic phosphoproteins are highly expressed throughout brain development. The functions of CRMPs encompass signal transduction in developmental guidance cues as well as multiple cellular and molecular events involved in apoptosis/proliferation, cell migration, and differentiation. In the adult brain, the expression of CRMPs is dramatically downregulated. However, CRMPs remain expressed in structures that retain their capacity for differentiation and plasticity. The expression of CRMPs is altered in neurodegenerative diseases, and these proteins may have a role in the physiopathology of the adult nervous system.

Additional Information

Gene ID	1809
Other Names	CRMP-4; CRMP4; DRP-3; DRP3; LCRMP; ULIP; ULIP-1; TUC4; Ulip1; TUC-4b; DPYL3_HUMAN; DPYSL3; Collapsin response mediator protein 4 (CRMP-4); Unc-33-like phosphoprotein 1 (ULIP-1); DPYL3_MOUSE; DPYL3_RAT; TOAD-64/Ulip/CRMP; dihydropyrimidinase like 3; dihydropyrimidinase-like 3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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.

Protein Information

Name	DPYSL3
Synonyms	CRMP4, DRP3, ULIP, ULIP1
Function	Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, neuronal growth cone collapse and cell migration (By similarity).
Cellular Location	Cytoplasm. Cell projection, growth cone. Note=Colocalizes with synaptic vesicle protein 2 in the central region of the growth cone.
Tissue Location	Mainly expressed in heart and skeletal muscle. Also strongly expressed in fetal brain and spinal cord

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.