SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-CRMP4 antibody

SL23133R

Product Name:	CRMP4
Chinese Name:	脑衰蛋白反应调节蛋白4抗体
Alias:	Unc 33 like phosphoprotein; Collapsin response mediator protein 4; Collapsin response mediator protein 4 long; CRMP 4; CRMP4; Dihydropyrimidinase like 3; Dihydropyrimidinase related protein 3; DPYSL3; DRP 3; DRP3; LCRMP; TUC4; Ulip 1; ULIP; ULIP1; UNc 33 like phosphoprotein 1; Unc 33 like phosphoprotein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	62kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CRMP4:88-135/570
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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).

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).

Subcellular Location:
Cytoplasmic. Cell projection, growth cone (By similarity). Note: Colocalizes with synaptic vesicle protein 2 in the central region of the growth cone.

Post-translational modifications:
Phosphorylation on Ser-522 by DYRK2 promotes subsequent phosphorylation on Thr-509, Thr-514 and Ser-518 by GSK3.

Similarity:
Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily.

SWISS:
Q14195

Gene ID:
1809

Database links:

Entrez Gene: 1809Human

Entrez Gene: 22240Mouse

Entrez Gene: 25418Rat

Omim: 601168Human

SwissProt: Q14195Human

SwissProt: Q62188Mouse

SwissProt: Q62952Rat

	Unigene: 519659Human Unigene: 428551Mouse Unigene: 8180Mouse Unigene: 93365Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.