SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Phospho-CRMP2 (Thr509)antibody

Catalog Number: SL14064R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Phospho-CRMP2 (Thr509)
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human CRMP-2 around the phosphorylation site of Thr509: SV(p-T)PK
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	62kDa
Subcellular Location:	cytoplasmic
Background:	Collapsin response mediator proteins (CRMPs) are cytosolic phosphoproteins involved in neuronal differentiation and axonal guidance. CRMP2 was previously shown to mediate the repulsive effect of Sema3A on axons and to participate in axonal specification. The CRMPs appear to play a complex role in axon growth as well as microtubule dynamics and axon induction. CRMPs localize to the lamellipodia and filopodia of axonal growth cones, suggesting a role in axon guidance. Moreover, CRMP2 is upregulated after axotomy, and appears to increase the formation of axon-type processes from hippocampal neurons. CRMP2 has been reported to bind tubulin dimers directly and modulate microtubule assembly.

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	CRMPs have also been implicated in the pathogenesis of a paraneoplastic neurologic syndrome. Interaction studies have implicated phospholipase D2 (PLD2), the cytosolic tyrosine kinase Fes, and intersectin in CRMP function. Hyperphosphorylation of CRMP2 is an early event in the progression of Alzheimer's disease. **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. **Subunit:** Homotetramer, and heterotetramer with CRMP1, DPYSL3, DPYSL4 or DPYSL5 (By similarity). Interacts through its C-terminus with the C-terminus of CYFIP1/SRA1. Interacts with HTR4 (By similarity). Interacts with CLN6. **Subcellular Location:** Cytoplasm. **Tissue Specificity:** Ubiquitous. **Post-translational modifications:** 3F4, a monoclonal antibody which strongly stains neurofibrillary tangles in Alzheimer disease brains, specifically labels DPYSL2 when phosphorylated on Ser-518, Ser-522 and Thr-509. **Similarity:** Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily. **Database links:** **Entrez Gene:** 1808 Human **Entrez Gene:** 12934 Mouse **Entrez Gene:** 25416 Rat Omim: 602463 Human **SwissProt:** Q16555 Human **SwissProt:** O08553 Mouse **SwissProt:** P47942 Rat **Unigene:** 173381 Human **Unigene:** 352648 Mouse **Unigene:** 475100 Mouse **Unigene:** 2889 Rat

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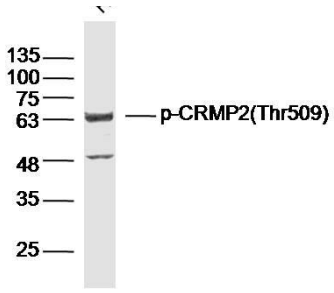
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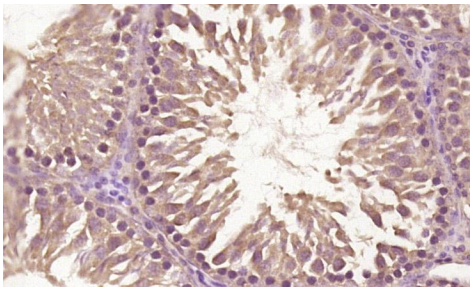
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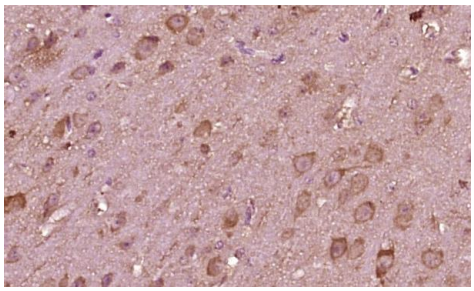
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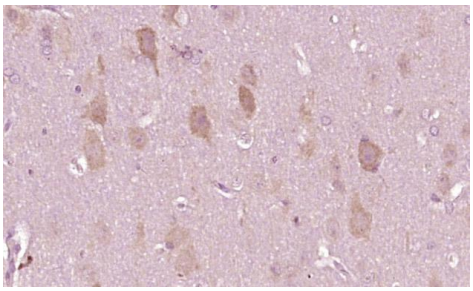
Sample:Hela Cell(Human)Lysate at 40 ug
Primary: Anti-P-CRMP2 (Thr509)(SL14064R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size:62kD
Observed band size: 62kD



Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRMP2 (Thr509)) Polyclonal Antibody, Unconjugated (SL14064R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRMP2 (Thr509)) Polyclonal Antibody, Unconjugated (SL14064R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRMP2 (Thr509)) Polyclonal Antibody, Unconjugated (SL14064R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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