



CRMP-2 (phospho Thr509) Polyclonal Antibody

Catalog No	YP-Ab-12649
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DPYSL2
Immunogen	The antiserum was produced against synthesized peptide derived from human CRMP-2 around the phosphorylation site of Thr509. AA range:475-524
Specificity	Phospho-CRMP-2 (T509) Polyclonal Antibody detects endogenous levels of CRMP-2 protein only when phosphorylated at T509.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Collapsin response mediator protein 2;Collapsin response mediator protein; Collapsin response mediator protein hCRMP 2;CRAM;CRMP 2;CRMP-2; CRMP2;DHPRP 2;DHPRP2;Dihydropyrimidinase 2;Dihydropyrimidinase like 2; Dihydropyrimidinase like 2 long form;Dihydropyrimidinase related protein 2; Dihydropyrimidinase-related protein 2;DPYL 2;DPYL2;DPYL2_HUMAN;DPYSL 2;Dpysl2;DRP-2;DRP2;Musunc 33;Musunc33;N2A3;TOAD 64;TOAD64;ULIP 2 protein;ULIP-2;Ulip2;Unc-33-like phosphoprotein 2
Observed Band	50kD
Calculated Molecular Weight	50kD
Cell Pathway	Cytoplasm, cytosol . Cytoplasm, cytoskeleton . Membrane . Tightly but non-covalently associated with membranes.
Tissue Specificity	Ubiquitous.
Function	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.,PTM: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.,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.,tissue specificity:Ubiquitous.,

Background

This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011],

matters needing attention

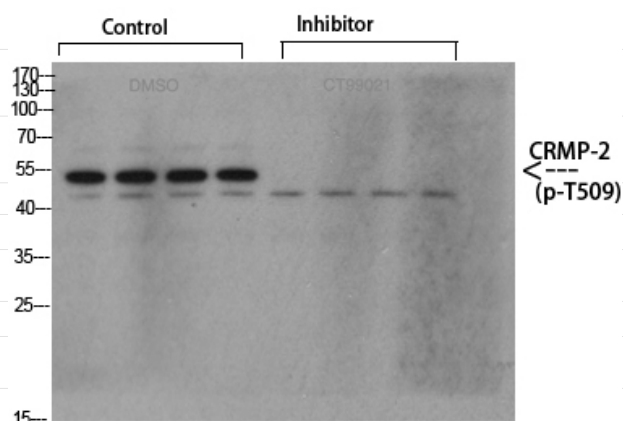
Avoid repeated freezing and thawing!

Usage suggestions

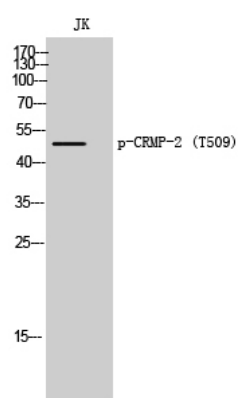
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



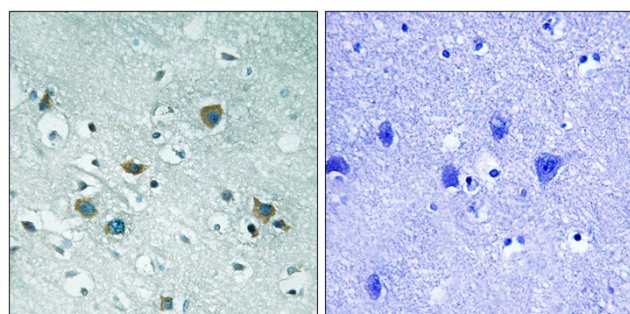
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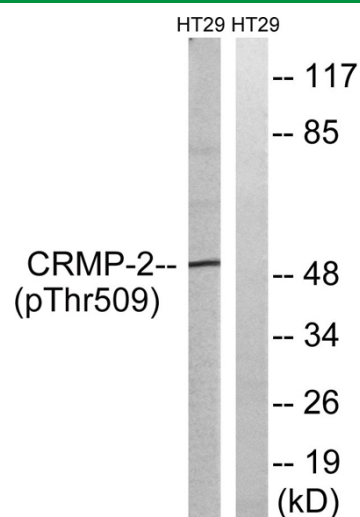
Western Blot analysis of various cells using primary antibody diluted at 1:1000 (4°C overnight). Secondary antibody: Goat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by Minute™ Plasma Membrane Protein Isolation and Cell Fractionation Kit (SM-005, Inventbiotech, MN, USA).



Western Blot analysis of JK cells using Phospho-CRMP-2 (T509) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using CRMP-2 (Phospho-Thr509) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HT29 cells treated with heat shock, using CRMP-2 (Phospho-Thr509) Antibody. The lane on the right is blocked with the phospho peptide.