CRMP-2 (phospho Thr514) Polyclonal Antibody

Catalog No :	YP0947
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	CRMP-2
Fields :	>>Axon guidance
Gene Name :	DPYSL2
Protein Name :	Dihydropyrimidinase-related protein 2
Human Gene Id :	1808
Human Swiss Prot No :	Q16555
Mouse Gene Id :	12934
Mouse Swiss Prot No :	O08553
Rat Gene Id :	25416
Rat Swiss Prot No :	P47942
Immunogen :	The antiserum was produced against synthesized peptide derived from human DRP-2 around the phosphorylation site of Thr514. AA range:480-529
Specificity :	Phospho-CRMP-2 (T514) Polyclonal Antibody detects endogenous levels of CRMP-2 protein only when phosphorylated at T514.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 65kD

Cell Pathway : Axon guidance;

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],

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.,

Subcellular Location : Cytoplasm, cytosol . Cytoplasm, cytoskeleton . Membrane . Tightly but non-covalently associated with membranes.

Expression : Ubiquitous.

Tag : orthogonal,hot

Sort : 4583

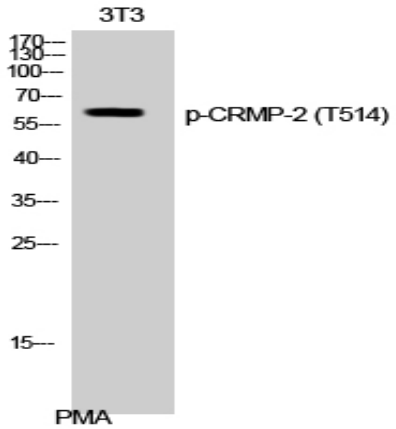
No2 : 9397S

No4 : 1

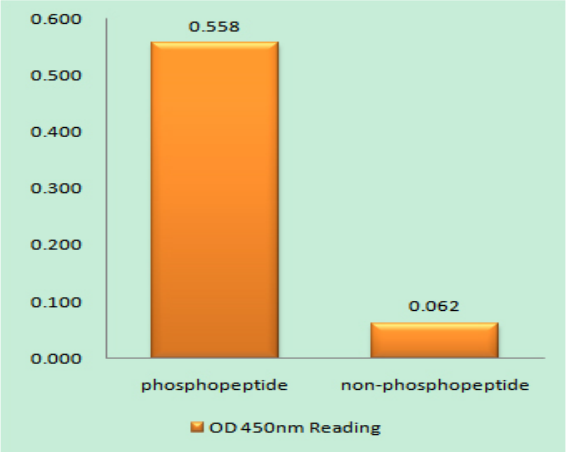
Host : Rabbit

Modifications : Phospho

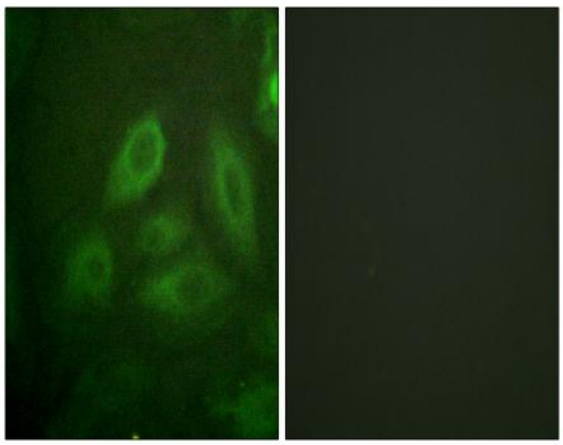
Products Images



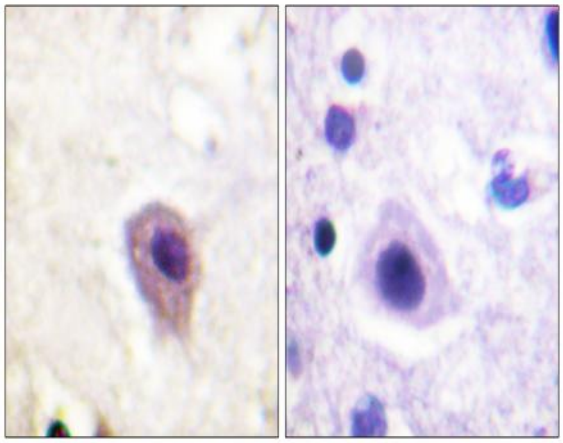
Western Blot analysis of 3T3 cells using Phospho-CRMP-2 (T514) Polyclonal Antibody



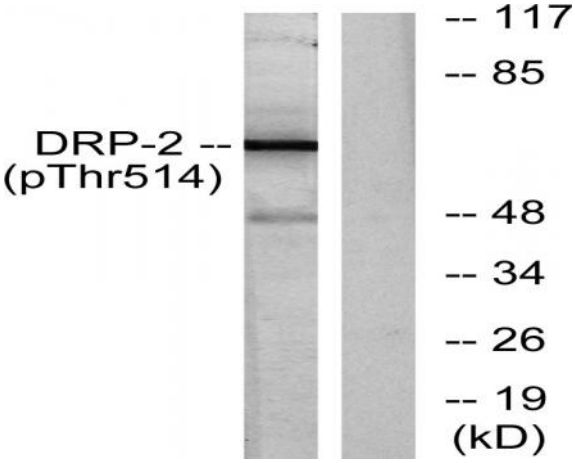
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using DRP-2 (Phospho-Thr514) Antibody



Immunofluorescence analysis of HeLa cells, using DRP-2 (Phospho-Thr514) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using DRP-2 (Phospho-Thr514) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using DRP-2 (Phospho-Thr514) Antibody. The lane on the right is blocked with the phospho peptide.