

Product datasheet

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ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody

Package: 100 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes DPYSL2 / CRMP2 phospho (Thr514)

Tested Reactivity Hu, Ms
Predict Reactivity Rat

Tested Application ICC/IF, IHC-P, WB

Specificity The antibody detects DPYSL2 / CRMP2 protein only when phosphorylated at Thr514.

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name DPYSL2 / CRMP2

Species Human

Immunogen Phosphospecific peptide around Thr514 (aa. 480-529) of Human DPYSL2 / CRMP2.

Conjugation Un-conjugated

Alternate Names Unc-33-like phosphoprotein 2; Dihydropyrimidinase-related protein 2; Collapsin response mediator

protein 2; DRP2; ULIP2; N2A3; DRP-2; DHPRP2; ULIP-2; CRMP-2; CRMP2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	NIH/3T3	
Observed Size	~ 62 kDa	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.5% BSA

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol DPYSL2

Gene Full Name dihydropyrimidinase-like 2

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 Plays a role in neuronal development and polarity, as well as in axon growth and guidance, neuronal

growth cone collapse and cell migration. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. May play a role in endocytosis. [UniProt]

Calculated Mw 62 kDa

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.

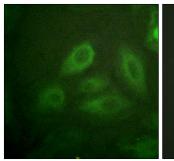
Phosphorylation at Thr-514 by GSK3B abolishes tubulin-binding leading to destabilization of microtubule assembly in axons and neurodegeneration (By similarity). Phosphorylation by DYRK2 at

Ser-522 is required for subsequent phosphorylation by GSK3B. [UniProt]

Cellular Localization Cytoplasm, cytosol. Cytoplasm, cytoskeleton. Membrane. Note=Tightly but non-covalently associated

with membranes. [UniProt]

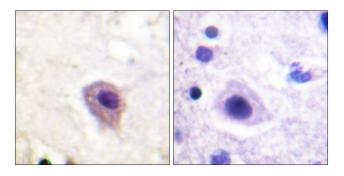
Images





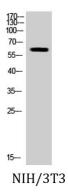
ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody. The picture on the right is blocked with the phospho peptide.



ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody. The picture on the right is blocked with the phospho peptide.



ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody WB image

Western blot: NIH/3T3 cell lysate stained with ARG66781 anti-DPYSL2 / CRMP2 phospho (Thr514) antibody.