

Datasheet for ABIN734468
anti-DPYSL2 antibody (AA 1-100)[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	DPYSL2
Binding Specificity:	AA 1-100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DPYSL2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CRMP2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	DPYSL2
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Target Details

Alternative Name:	CRMP2 (DPYSL2 Products)
Background:	<p>Synonyms: Collapsin response mediator protein 2, Collapsin response mediator protein hCRMP 2, CRAM, CRMP 2, CRMP-2, CRMP2, DHPRP 2, DHPRP2, Dihydr pyrimidinase 2, 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, DRP-2, DRP2, Musunc 33, Musunc33, N2A3, TOAD 64, TOAD64, ULIP 2 protein, ULIP-2, Ulip2, Unc-33-like phosphoprotein 2.</p> <p>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. CRMPs have also been implicated in the pathogenesis of a paraneoplastic neurologic syndrome.</p> <p>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.</p>
Gene ID:	1808
UniProt:	Q16555
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

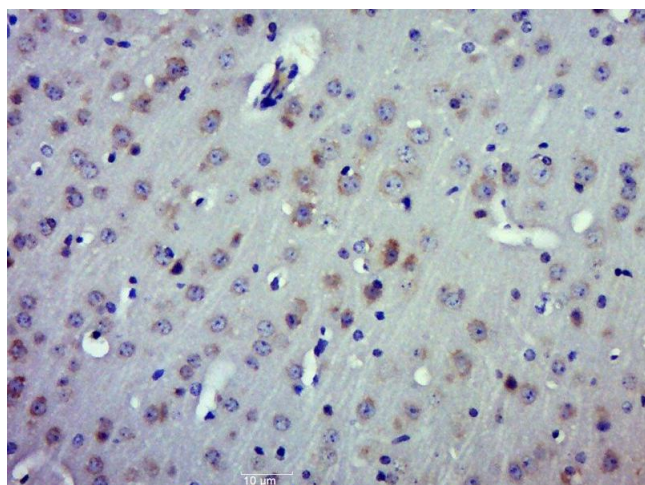
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

- Product cited in:
- Tang, Li, Su, Fu, Zou, Wang, Li: "Absence of miR-223-3p ameliorates hypoxia-induced injury through repressing cardiomyocyte apoptosis and oxidative stress by targeting KLF15." in: **European journal of pharmacology**, Vol. 841, pp. 67-74, (2019) ([PubMed](#)).
- Zheng, Liu, Li, Tang, Zhang, Tang: "Lithium posttreatment confers neuroprotection through glycogen synthase kinase-3β inhibition in intracerebral hemorrhage rats." in: **Journal of neurosurgery**, pp. 1-9, (2016) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded mouse brain; 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/TOAD64 Polyclonal Antibody (bs-1790R) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.