Datasheet for ABIN7599571

anti-DYNLL1 antibody (AA 1-89)

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Overview

Quantity:	100 µg
Target:	DYNLL1
Binding Specificity:	AA 1-89
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DYNLL1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-DYNLL1/PIN Antibody Picoband®
Immunogen:	E.coli-derived human DYNLL1/PIN recombinant protein (Position: M1-G89).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DYNLL1/PIN Antibody Picoband® (ABIN7599571). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DYNLL1
Alternative Name:	DYNLL1 (DYNLL1 Products)
Background:	Synonyms: Creatine kinase M-type, Creatine kinase M chain, Creatine phosphokinase M-type , CPK-M, M-CK, CKM, CKMM Background: Dynein light chain 1, cytoplasmic is a protein that in humans is encoded by the DYNLL1 gene. Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the neuronal nitric oxide synthase dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. Alternate transcriptional splice variants have been characterized.
Molecular Weight:	12 kDa
Gene ID:	8655
UniProt:	P63167
Pathways:	M Phase, Tube Formation, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Dick, T., Ray, K., Salz, H. K., Chia, W. Cytoplasmic dynein (ddlc1) mutations cause morphogenetic defects and apoptotic cell death in Drosophila melanogaster. Molec. Cell. Biol. 16: 1966-1977, 1996. 2. Fuhrmann, J. C., Kins, S., Rostaing, P., El Far, O., Kirsch, J., Sheng, M., Triller, A., Betz, H., Kneussel, M. Gephyrin interacts with dynein light chains 1 and 2, components of motor protein complexes. J. Neurosci. 22: 5393-5402, 2002. 3. He, Y. J., Meghani, K., Caron, M.-C., Yang, C., Ronato, D. A., Bian, J., Sharma, A., Moore, J., Niraj, J., Detappe, A., Doench, J. G., Legube, G., Root, D. E., D'Andrea, A. D., Drane, P., De, S., Konstantinopoulos, P. A., Masson, J.-Y., Chowdhury, D. DYNLL1 binds to MRE11 to limit DNA end resection in BRCA1-deficient cells.

Application Details

	Nature 563: 522-526, 2018.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

