

Datasheet for ABIN7601479
anti-PPP3CB antibody (AA 36-524)



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Overview

Quantity:	100 µg
Target:	PPP3CB
Binding Specificity:	AA 36-524
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP3CB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PPP3CB Antibody Picoband®
Immunogen:	E.coli-derived human PPP3CB recombinant protein (Position: H36-Q524).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PPP3CB Antibody Picoband® (ABIN7601479). Tested in ELISA, IHC, WB, Flow Cytometry applications. This antibody reacts with Human, Monkey, 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:	PPP3CB
Alternative Name:	PPP3CB (PPP3CB Products)
Background:	<p>Synonyms: Mesoderm posterior protein 1, Class C basic helix-loop-helix protein 5, bHLHc5, MESP1, BHLHC5</p> <p>Tissue Specificity: Highly expressed in brain and weakly in heart, small intestine and uterus. Isoform 1A is mostly expressed in granular cell and molecular layer. Isoform 1B is mostly expressed in Purkinje cells. Isoform 1E is predominantly expressed in peripheral tissues as kidney, lung, trachea, colon, small intestine, stomach, bone marrow, thymus and mammary gland. .</p> <p>Background: Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform (PP2BB) is an enzyme that in humans is encoded by the PPP3CB gene. Enables several functions, including calmodulin binding activity, calmodulin-dependent protein phosphatase activity, and protein phosphatase 2B binding activity. Involved in calcineurin-NFAT signaling cascade, positive regulation of transcription by RNA polymerase II, and protein dephosphorylation. Located in cytoplasm. Part of calcineurin complex. Implicated in aortic valve stenosis. Biomarker of focal segmental glomerulosclerosis and schizophrenia.</p>
Molecular Weight:	59 kDa
Gene ID:	5532
UniProt:	P16298
Pathways:	RTK Signaling , WNT Signaling , Fc-epsilon Receptor Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Regulation of Leukocyte Mediated Immunity , VEGF Signaling , BCR Signaling

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Monkey, Mouse, Rat</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Bueno, O. F., Wilkins, B. J., Tymitz, K. M., Glascock, B. J., Kimball, T. F., Lorenz, J. N., Molkenin, J. D. Impaired cardiac hypertrophic response in calcineurin A-beta-deficient mice. Proc. Nat. Acad. Sci. 99: 4586-4591, 2002. 2. Giri, P., Higuchi, S., Kincaid, R. L. Chromosomal mapping of the human genes for the calmodulin-dependent protein phosphatase (calcineurin) catalytic subunit. Biochem. Biophys. Res. Commun. 181: 252-258, 1991. 3. Wang, J.-X., Jiao, J.-</p>
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Application Details

Q., Li, Q., Long, B., Wang, K., Liu, J.-P., Li, Y.-R., Li, P.-F. miR-499 regulates mitochondrial dynamics by targeting calcineurin and dynamin-related protein-1. Nature Med. 17: 71-78, 2011.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 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:	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 freezing and thawing.