

Rabbit PPP3CB Polyclonal Antibody | anti-PPP3CB antibody

Anti-PPP3CB Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127434	Rabbit	Human, Monkey, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PPP3CB; Polyclonal Antibody; Anti-PPP3CB Antibody Picoband; Gamma-aminobutyric acid type B receptor subunit 1; mesoderm posterior bHLH transcription factor 1; Mesoderm posterior protein 1; Class C basic helix-loop-helix protein 5; bHLHc5; MESP1; BHLHC5; anti-PPP3CB antibody

PRODUCT SPECIFICATIONS

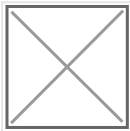
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly expressed in brain and weakly in heart, small intestine and uterus. Isoform 1A is mostlyExpressed in granular cell and molecular layer. Isoform 1B is mostlyExpressed in Purkinje cells. Isoform 1E is predominantlyExpressed in peripheral tissues as kidney, lung, trachea, colon, small intestine, stomach, bone marrow, thymus and mammary gland.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PPP3CB antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human PPP3CB recombinant protein (Position: H36-Q524).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Transcription factor. Plays a role in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm. Defines the rostrocaudal patterning of the somites by participating in distinct Notch pathways.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



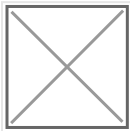
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of U937 cells using anti-PPP3CB antibody (AAA127434).Overlay histogram showing U937 cells stained with AAA127434 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPP3CB Antibody (AAA127434, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
Figure 4. IHC analysis of PPP3CB using anti-PPP3CB antibody (AAA127434).PPP3CB was detected in a paraffin-embedded section of human urothelial carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPP3CB Antibody (AAA127434) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemisrty)
Figure 3. IHC analysis of PPP3CB using anti-PPP3CB antibody (AAA127434).PPP3CB was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPP3CB Antibody (AAA127434) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of PPP3CB using anti-PPP3CB antibody (AAA127434).PPP3CB was detected in a paraffin-embedded section of human rectum adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPP3CB Antibody (AAA127434) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of PPP3CB using anti-PPP3CB antibody (AAA127434).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates,Lane 2: monkey COS-7 whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: rat heart tissue lysates,Lane 5: rat C6 whole cell lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse heart tissue lysates,Lane 8: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PPP3CB antigen affinity purified polyclonal antibody (#AAA127434) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PPP3CB at approximately 59 kDa. The expected band size for PPP3CB is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP3CB antibody	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.
Product Categories/Family for anti-PPP3CB antibody	Primary Antibodies; Interleukins
References	1. Bueno, O. F., Wilkins, B. J., Tymitz, K. M., Glascock, B. J., Kimball, T. F., Lorenz, J. N., Molkentin, 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.-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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	60659599
NCBI GeneID	5532
UniProt Accession #	P16298; P16299; Q5F2F9; Q8N1F0; Q8N3W4
Molecular Weight	524
NCBI Official Full Name	Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform
NCBI Official Synonym Full Names	protein phosphatase 3, catalytic subunit, beta isozyme
NCBI Official Symbol	PPP3CB
NCBI Official Synonym Symbols	CNA2; CALNB; CALNA2; PP2Bbeta
NCBI Protein Information	serine/threonine-protein phosphatase 2B catalytic subunit beta isoform; calcineurin A2; calcineurin A beta; CAM-PRP catalytic subunit; protein phosphatase from PCR fragment H32; calmodulin-dependent calcineurin A subunit beta isoform; protein phosphatase
UniProt Protein Name	Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform
UniProt Gene Name	PPP3CB
UniProt Synonym Gene Names	CALNA2; CALNB; CNA2
UniProt Entry Name	PP2BB_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppp3cb-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127434>