

Rabbit PPP2R5D Polyclonal Antibody | anti-PPP2R5D antibody

Anti-PPP2R5D Antibody Picoband

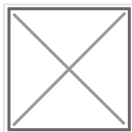
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127373	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PPP2R5D; Polyclonal Antibody; Anti-PPP2R5D Antibody Picoband; semaphorin 3C; Semaphorin-3C; Semaphorin-E; Sema E; SEMA3C; SEMAE; anti-PPP2R5D antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed intensely in the heart, skeletal muscle, colon, small intestine, ovary, testis, and prostate. Faint expression ubiquitously among other organs, including brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PPP2R5D antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PPP2R5D recombinant protein (Position: R91-L602).
Subcellular Localization	Secreted
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	Binds to plexin family members and plays an important role in the regulation of developmental processes. Required for normal cardiovascular development during embryogenesis. Functions as attractant for growing axons, and thereby plays an important role in axon growth and axon guidance.
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 2. Flow Cytometry analysis of SiHa cells using anti-PPP2R5D antibody (AAA127373).Overlay histogram showing SiHa cells stained with AAA127373 (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-PPP2R5D Antibody (AAA127373, 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.



WB (Western Blot)
Figure 1. Western blot analysis of PPP2R5D using anti-PPP2R5D antibody (AAA127373).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 Hela whole cell lysates,Lane 2: human MCF-7 whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: rat brain tissue lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse Neuro-2a 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-PPP2R5D antigen affinity purified polyclonal antibody (#AAA127373) at 0.25ug/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 PPP2R5D at approximately 74 kDa. The expected band size for PPP2R5D is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP2R5D 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-PPP2R5D antibody	Primary Antibodies; Cancer; Cell Biology; Oncoproteins/Suppressors; Protease Inhibitors; Proteolysis/Ubiquitin; Tumor Suppressors
References	1. Deciphering Developmental Disorders Study. Large-scale discovery of novel genetic causes of developmental disorders. Nature 519: 223-228, 2015.2. Houge, G., Haesen, D., Vissers, L. E. L. M., Mehta, S., Parker, M. J., Wright, M., Vogt, J., McKee, S., Tolmie, J. L., Cordeiro, N., Kleefstra, T., Willemsen, M. H., and 17 others. B56-delta-related protein phosphatase 2A dysfunction identified in patients with intellectual disability. J. Clin. Invest. 125: 3051-3062, 2015. 3. Louis, J. V., Martens, E., Borghgraef, P., Lambrecht, C., Sents, W., Longin, S., Zwaenepoel, K., Pijnenborg, R., Landrieu, I., Lippens, G., Ledermann, B., Gotz, J., Van Leuven, F., Goris, J., Janssens, V. Mice lacking phosphatase PP2A subunit PR61/B'delta (Ppp2r5d) develop spatially restricted tauopathy by deregulation of CDK5 and GSK3-beta. Proc. Nat. Acad. Sci. 108: 6957-6962, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	394582140
NCBI GeneID	5528
NCBI Accession #	NP_001257405.1
NCBI GenBank Nucleotide #	NM_001270476.1
UniProt Accession #	Q14738; O00494; O00696; Q15171; Q5TC39; A8K3I9; B5BUA6
Molecular Weight	69,992 Da
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform isoform 4
NCBI Official Synonym Full Names	protein phosphatase 2, regulatory subunit B', delta
NCBI Official Symbol	PPP2R5D
NCBI Official Synonym Symbols	B56D
NCBI Protein Information	serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform; PP2A B subunit isoform B'-delta; PP2A B subunit isoform R5-delta; PP2A B subunit isoform B56-delta; PP2A B subunit isoform PR61-delta; PP2A, B subunit, B' delta isoform; PP2A

UniProt Protein Name	Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform
UniProt Gene Name	PPP2R5D
UniProt Entry Name	2A5D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppp2r5d-antibody-flow-cytometry-western-blot-elisa/127373>