

Rabbit anti-Human PPP1R15B Polyclonal Antibody | anti-PPP1R15B antibody

Anti-PPP1R15B Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127636	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PPP1R15B; Polyclonal Antibody; Anti-PPP1R15B Antibody Picoband; Protein NDRG3; N-myc downstream-regulated gene 3 protein; NDRG3; anti-PPP1R15B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.Highly expressed in 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-PPP1R15B antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PPP1R15B recombinant protein (Position: Q211-D657).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	Promotes the growth of epithelial cells. May stimulate the phosphorylation of EGFR and mitogen-activated protein kinases.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-PPP1R15B antibody (AAA127636).Overlay histogram showing MCF-7 cells stained with AAA127636 (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-PPP1R15B Antibody (AAA127636, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of PPP1R15B using anti-PPP1R15B antibody (AAA127636).PPP1R15B was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PPP1R15B Antibody (AAA127636) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PPP1R15B using anti-PPP1R15B antibody (AAA127636). 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 293T whole cell lysates, Lane 2: human HeLa whole cell lysates, Lane 3: human MCF-7 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-PPP1R15B antigen affinity purified polyclonal antibody (#AAA127636) 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 PPP1R15B at approximately 110 kDa. The expected band size for PPP1R15B is at 79,100-110 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R15B 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-PPP1R15B antibody	Primary Antibodies; Cancer; Cell Biology; Cell Cycle; Cell Differentiation; Tumor Biomarkers
References	1. Harding, H. P., Zhang, Y., Scheuner, D., Chen, J.-J., Kaufman, R. J., Ron, D. Ppp1r15 gene knockout reveals an essential role for translation initiation factor 2 alpha (eIF2-alpha) dephosphorylation in mammalian development. Proc. Nat. Acad. Sci. 106: 1832-1837, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74743925
UniProt Accession #	Q5SWA1; Q53GQ4; Q658M2; Q6P156; Q96SN1
Molecular Weight	79,152 Da
NCBI Official Full Name	Protein phosphatase 1 regulatory subunit 15B
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 15B
UniProt Gene Name	PPP1R15B
UniProt Entry Name	PR15B_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppp1r15b-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127636>