

Rabbit anti-Human PPP1R36 Polyclonal Antibody | anti-PPP1R36 antibody

Anti-PPP1R36 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127904	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PPP1R36; Polyclonal Antibody; Anti-PPP1R36 Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-PPP1R36 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-PPP1R36 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PPP1R36 recombinant protein (Position: R44-D381).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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 3. Flow Cytometry analysis of Hela cells using anti-PPP1R36 antibody (AAA127904).Overlay histogram showing Hela cells stained with AAA127904 (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-PPP1R36 Antibody (AAA127904, 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 PPP1R36 using anti-PPP1R36 antibody (AAA127904).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 SIHA whole cell lysates,Lane 3: human RT4 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-PPP1R36 antigen affinity purified polyclonal antibody (#AAA127904) 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 PPP1R36 at approximately 54 kDa. The expected band size for PPP1R36 is at 49 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of PPP1R36 using anti-PPP1R36 antibody (AAA127904) and anti-Tubulin Alpha antibody (M03989-3).PPP1R36 was detected in immunocytochemical section of HELA cell. 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-PPP1R36 Antibody (AAA127904) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R36 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-PPP1R36 antibody	Primary Antibodies; Cell Biology
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 6/16/2022.2. Gross, N., Strillacci, M. G., Penagaricano, F., Khatib, H. Characterization and functional roles of paternal RNAs in 2-4 cell bovine embryos. Sci. Rep. 9: 20347, 2019. 3. Zhang, Q., Gao, M., Zhang, Y., Song, Y., Cheng, H., Zhou, R. The germline-enriched Ppp1r36 promotes autophagy. Sci. Rep. 6: 24609, 2016.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	145376
UniProt Accession #	Q96LQ0
Molecular Weight	Observed Molecular Weight: 54kDa Calculated Molecular Weight: 24145
UniProt Protein Name	Uncharacterized protein C14orf50
UniProt Gene Name	C14orf50
UniProt Entry Name	CN050_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppp1r36-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127904>