

Rabbit anti-Human PRRC1 Polyclonal Antibody | anti-PRRC1 antibody

Anti-PRRC1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127853	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PRRC1; Polyclonal Antibody; Anti-PRRC1 Antibody Picoband; Transmembrane protein 240; TMEM240; C1orf70; anti-PRRC1 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-PRRC1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PRRC1 recombinant protein (Position: Y139-D411).
Subcellular Localization	Cell junction, synapse, Cell membrane, Multi-pass 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	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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-PRRC1 antibody (AAA127853).Overlay histogram showing U251 cells stained with AAA127853 (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-PRRC1 Antibody (AAA127853, 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 PRRC1 using anti-PRRC1 antibody (AAA127853).PRRC1 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-PRRC1 Antibody (AAA127853) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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 PRRC1 using anti-PRRC1 antibody (AAA127853). 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: human Caco-2 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-PRRC1 antigen affinity purified polyclonal antibody (#AAA127853) 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 PRRC1 at approximately 47 kDa. The expected band size for PRRC1 is at 47 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRRC1 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-PRRC1 antibody	Primary Antibodies; Cell Biology
References	1. Kamakari, S. , Roussou, A. , Jefferson, A. , Ragoussis, I. , & Anagnou, N. P. . (2005). Structural analysis and expression profile of a novel gene on chromosome 5q23 encoding a golgi-associated protein with six splice variants, and involved within the 5q deletion of a ph(-) cml patient. Leukemia Research, 29(1), 17-31.2. WW Domains Provide a Platform for the Assembly of Multiprotein Networks.[J]. Molecular & Cellular Biology, 2005.3. St-Denis, N. , Gupta, G. D. , Lin, Z. Y. , Gonzalez-Badillo, B. , Pelletier, L. , & Gingras, A. C. . (2015). Myotubularin-related proteins 3 and 4 interact with polo-like kinase 1 and centrosomal protein of 55 kda to ensure proper abscission. Molecular & Cellular Proteomics.

NCBI AND UNIPROT INFORMATION

NCBI GI #	558472786
NCBI GeneID	133619
NCBI Accession #	NP_001273737.1
NCBI GenBank Nucleotide #	NM_001286808.1
UniProt Accession #	Q96M27; Q69YM8; Q7L2U7; Q86Y42; Q8IVJ4; Q8IVL4; Q8NEZ7; Q96AJ3
Molecular Weight	46,701 Da
NCBI Official Full Name	protein PRRC1 isoform 1
NCBI Official Synonym Full Names	proline-rich coiled-coil 1
NCBI Official Symbol	PRRC1
NCBI Protein Information	protein PRRC1; proline-rich and coiled-coil-containing protein 1
UniProt Protein Name	Protein PRRC1
UniProt Gene Name	PRRC1
UniProt Entry Name	PRRC1_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/prrc1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127853>