

Rabbit PRELP Polyclonal Antibody | anti-PRELP antibody

Anti-PRELP Antibody Picoband

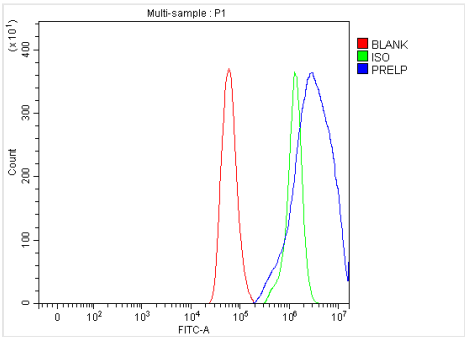
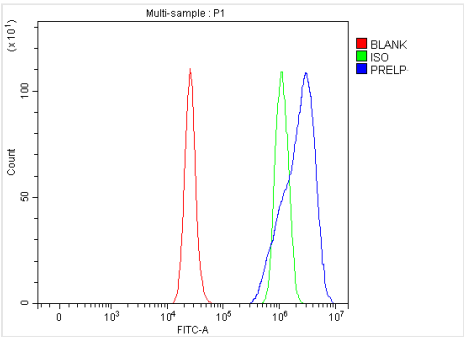
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127465	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PRELP; Polyclonal Antibody; Anti-PRELP Antibody Picoband; BAG family molecular chaperone regulator 5; cadherin 4; Cadherin-4; Retinal cadherin; R-CAD; R-cadherin; CDH4; anti-PRELP antibody

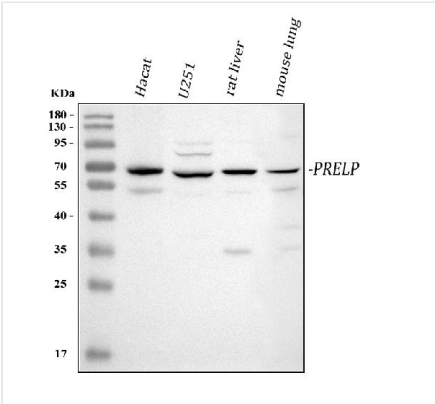
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed mainly in brain but also found in other tissues.
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-PRELP antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PRELP recombinant protein (Position: I69-R353).
Subcellular Localization	Cell 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	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. May play an important role in retinal development.
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 RT4 cells using anti-PRELP antibody (AAA127465).Overlay histogram showing RT4 cells stained with AAA127465 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PRELP Antibody (AAA127465, 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.

FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of Hela cells using anti-PRELP antibody (AAA127465).Overlay histogram showing Hela cells stained with AAA127465 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PRELP Antibody (AAA127465, 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 PRELP using anti-PRELP antibody (AAA127465).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 Haca1 whole cell lysates,Lane 2: human U251 whole cell lysates,Lane 3: rat liver tissue lysates,Lane 4: mouse lung tissue 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-PRELP antigen affinity purified polyclonal antibody (#AAA127465) 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 PRELP at approximately 65 kDa. The expected band size for PRELP is at 44,65 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRELP 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-PRELP antibody	Primary Antibodies; Cadherins; Calcium Binding Proteins; Calcium Signaling; Cancer; Cell Adhesion; Cytoskeleton/ECM; Invasion/Microenvironment; Plasma Membrane; Signal Transduction; Signaling Pathway; Subcellular Markers; Tags & Cell Markers
References	1. Bengtsson, E., Neame, P. J., Heinegard, D., Sommarin, Y. The primary structure of a basic leucine-rich repeat protein, PRELP, found in connective tissues. J. Biol. Chem. 270: 25639-25644, 1995. 2. Grover, J., Chen, X.-N., Korenberg, J. R., Recklies, A. D., Roughley, P. J. The gene organization, chromosome location, and expression of a 55-kDa matrix protein (PRELP) of human articular cartilage. Genomics 38: 109-117, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	41349454
NCBI GeneID	5549
NCBI Accession #	NP_958505.1
NCBI GenBank Nucleotide #	NM_201348.1
UniProt Accession #	P51888; Q6FG38
Molecular Weight	43,810 Da
NCBI Official Full Name	prolargin
NCBI Official Synonym Full Names	proline/arginine-rich end leucine-rich repeat protein
NCBI Official Symbol	PRELP
NCBI Official Synonym Symbols	MST161; SLRR2A; MSTP161
NCBI Protein Information	prolargin; prolargin proteoglycan; proline-arginine-rich end leucine-rich repeat protein; 55 kDa leucine-rich repeat protein of articular cartilage
UniProt Protein Name	Prolargin
UniProt Gene Name	PRELP
UniProt Synonym Gene Names	SLRR2A
UniProt Entry Name	PRELP_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/prelp-antibody-flow-cytometry-western-blot-elisa/127465>