

Rabbit CLPP Polyclonal Antibody | anti-CLPP antibody

Anti-CLPP Antibody Picoband

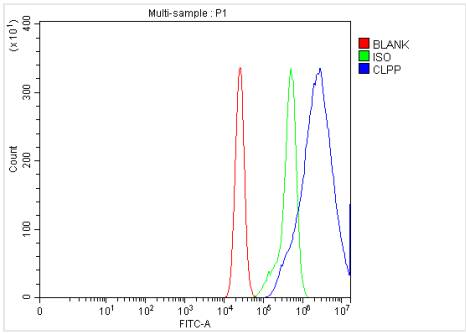
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126111	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

CLPP; Polyclonal Antibody; Anti-CLPP Antibody Picoband; anti-CLPP antibody

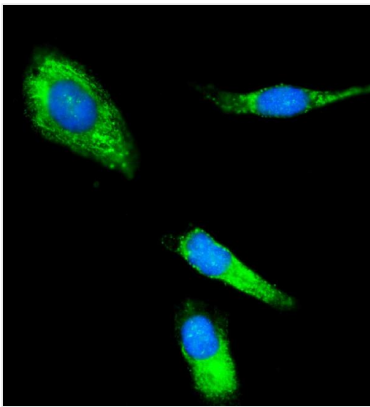
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Mouse Dll1
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CLPP antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store 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.



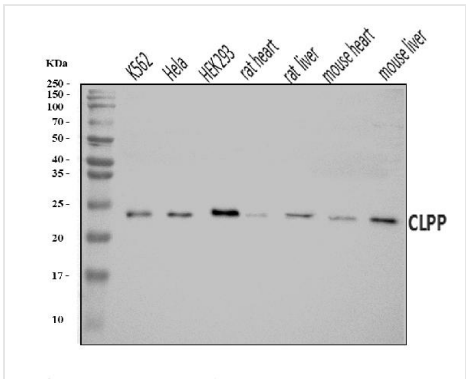
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of CACO-2 cells using anti-CLPP antibody (AAA126111). Overlay histogram showing CACO-2 cells stained with AAA126111 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CLPP Antibody (AAA126111, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of CLPP using anti-CLPP antibody (AAA126111). CLPP was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-CLPP Antibody (AAA126111) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 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 CLPP using anti-CLPP antibody (AAA126111). 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 K562 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HEK293 whole cell lysates, Lane 4: rat heart tissue lysates, Lane 5: rat liver tissue lysates, Lane 6: mouse heart tissue lysates, Lane 7: mouse liver 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-CLPP antigen affinity purified polyclonal antibody (#AAA126111) at 0.5 ug/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 CLPP at approximately 25 kDa. The expected band size for CLPP is at 25 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CLPP antibody	Background: DLL1(DELTA-LIKE 1), also known as DL1 or DELTA1, is a protein that in humans is encoded by the DLL1 gene. DLL1 is a human homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis, and it is also important in cell-to-cell communication. This gene is mapped to chromosome 6q27, near a locus for type I diabetes. Functional analysis suggested that a soluble fusion protein containing the DSL domain of DLL1 and its adjacent 50 N-terminal amino acids increased the viability of hemopoietic cells but inhibited cell death. It has been found that DLL1 blocks the differentiation of progenitor cells into the B-cell lineage while promoting the emergence of a population of cells with the characteristics of a T-cell/NK-cell precursor. Principle of the Assay: The Mouse Dll1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Dll1 with a 96-well strip plate that is pre-coated with antibody specific for Dll1. The detection antibody is a biotinylated antibody specific for Dll1. The capture antibody is a monoclonal antibody from rat and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Dll1 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q18-H535. The kit is analytically validated with ready-to-use reagents. To measure Mouse Dll1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Dll1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Dll1 in the sample.
Product Categories/Family for anti-CLPP antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174419
NCBI GeneID	8192
NCBI Accession #	NP_006003.1
NCBI GenBank Nucleotide #	NM_006012.2
UniProt Accession #	Q16740; B2R4W5
Molecular Weight	30,180 Da
NCBI Official Full Name	ATP-dependent Clp protease proteolytic subunit, mitochondrial
NCBI Official Synonym Full Names	caseinolytic mitochondrial matrix peptidase proteolytic subunit
NCBI Official Symbol	CLPP
NCBI Official Synonym Symbols	DFNB81; PRLTS3
NCBI Protein Information	ATP-dependent Clp protease proteolytic subunit, mitochondrial; ATP-dependent protease ClpAP, proteolytic subunit, human; ClpP caseinolytic peptidase ATP-dependent, proteolytic subunit; ClpP caseinolytic peptidase, ATP-dependent, proteolytic subunit homolo
UniProt Protein Name	ATP-dependent Clp protease proteolytic subunit, mitochondrial
UniProt Gene Name	CLPP
UniProt Entry Name	CLPP_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/clpp-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126111>