

Rabbit anti-Human ENPP1/PC1 Polyclonal Antibody | anti-ENPP1 antibody

Anti-ENPP1/PC1 Antibody Picoband

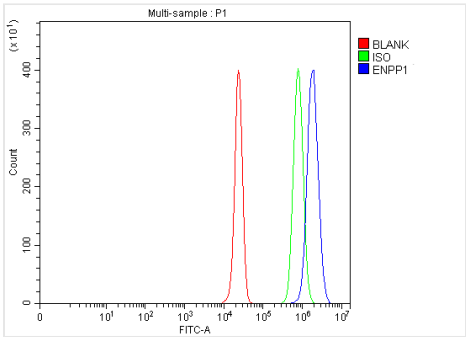
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126134	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ENPP1/PC1; Polyclonal Antibody; Anti-ENPP1/PC1 Antibody Picoband; anti-ENPP1 antibody

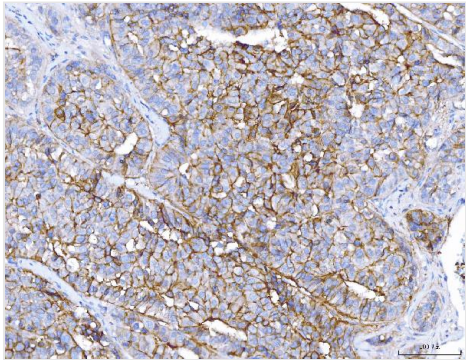
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CD207
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-ENPP1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	156 pg/ml - 10,000 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.



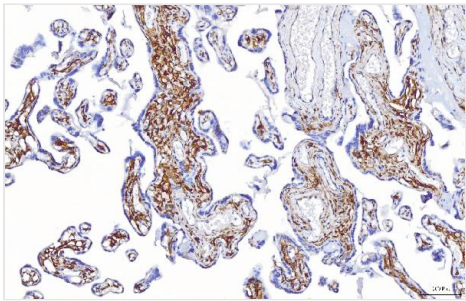
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-ENPP1/PC1 antibody (AAA126134).Overlay histogram showing HepG2 cells stained with AAA126134 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ENPP1/PC1 Antibody (AAA126134, 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.



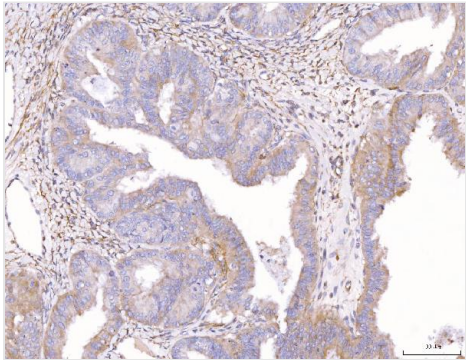
IHC (Immunohistochemistry)

Figure 3. IHC analysis of ENPP1/PC1 using anti-ENPP1/PC1 antibody (AAA126134).ENPP1/PC1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ENPP1/PC1 Antibody (AAA126134) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



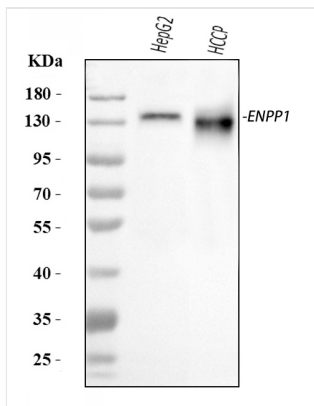
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ENPP1/PC1 using anti-ENPP1/PC1 antibody (AAA126134).ENPP1/PC1 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ENPP1/PC1 Antibody (AAA126134) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ENPP1/PC1 using anti-ENPP1/PC1 antibody (AAA126134).ENPP1/PC1 was detected in a paraffin-embedded section of human endometrial cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ENPP1/PC1 Antibody (AAA126134) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ENPP1/PC1 using anti-ENPP1/PC1 antibody (AAA126134). 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 HepG2 whole cell lysates, Lane 2: human HCCP 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-ENPP1/PC1 antigen affinity purified polyclonal antibody (#AAA126134) 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 ENPP1/PC1 at approximately 130-150 kDa. The expected band size for ENPP1/PC1 is at 105 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ENPP1 antibody	Background: Langerin (CD207) is a type II transmembrane protein which is encoded by the CD207 gene in humans. The protein encoded by this gene is expressed only in Langerhans cells which are immature dendritic cells of the epidermis and mucosa. It is localized in the Birbeck granules, organelles present in the cytoplasm of Langerhans cells and consisting of superimposed and zippered membranes. It is a C-type lectin with mannose binding specificity, and it has been proposed that mannose binding by this protein leads to internalization of antigen into Birbeck granules and providing access to a nonclassical antigen-processing pathway. Mutations in this gene result in Birbeck granules deficiency or loss of sugar binding activity. Principle of the Assay: The Picokine™ Human CD207 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CD207 with a 96-well strip plate that is pre-coated with antibody specific for CD207. The detection antibody is a biotinylated antibody specific for CD207. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CD207 with immunogen: Expression system for standard: NS0; Immunogen sequence: P65-P328. The kit is analytically validated with ready-to-use reagents. To measure Human CD207, 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 Human CD207 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 Human CD207 in the sample.
Product Categories/Family for anti-ENPP1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	23503088
NCBI GeneID	5167
UniProt Accession #	P22413 ; Q5T9R6 ; Q9NPZ3 ; Q9P1P6 ; Q9UP61 ; Q9Y6K3
Molecular Weight	925

NCBI Official Full Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1
NCBI Official Synonym Full Names	ectonucleotide pyrophosphatase/phosphodiesterase 1
NCBI Official Symbol	ENPP1
NCBI Official Synonym Symbols	M6S1; NPP1; NPPS; PC-1; PCA1; ARHR2; COLED; PDNP1
NCBI Protein Information	ectonucleotide pyrophosphatase/phosphodiesterase family member 1; E-NPP 1; Ly-41 antigen; alkaline phosphodiesterase 1; plasma-cell membrane glycoprotein 1; plasma-cell membrane glycoprotein PC-1; membrane component chromosome 6 surface marker 1; phosphod
UniProt Protein Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1
UniProt Gene Name	ENPP1
UniProt Synonym Gene Names	M6S1; NPPS; PC1; PDNP1; E-NPP 1; NPPase
UniProt Entry Name	ENPP1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/enpp1-pc1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126134>