

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

Anti-PLTP Antibody

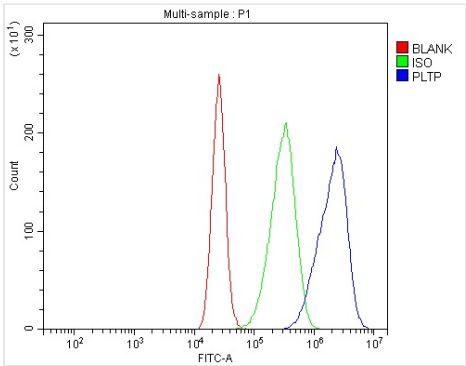
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19255	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PLTP; Polyclonal Antibody; Anti-PLTP Antibody; Phospholipid transfer protein; Lipid transfer protein II; phospholipid transfer protein; anti-PLTP antibody

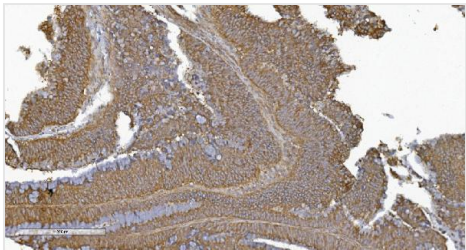
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PLTP detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-PLTP antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human PLTP recombinant protein (Position: E18-E470).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



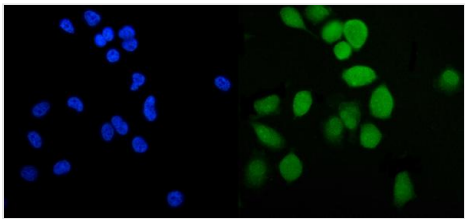
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of CACO-2 cells using anti-PLTP antibody (AAA19255).Overlay histogram showing CACO-2 cells stained with AAA19255 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PLTP Antibody (AAA19255, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



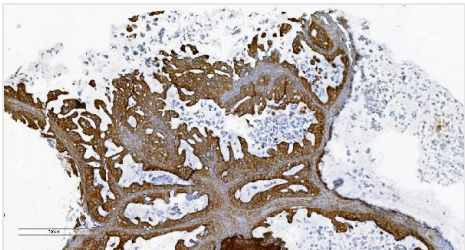
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PLTP using anti-PLTP antibody (AAA19255).PLTP was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PLTP Antibody (AAA19255) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



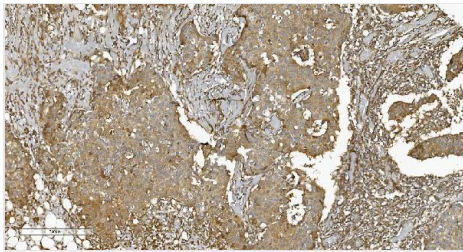
IF (Immunofluorescence)

Figure 5. IF analysis of PLTP using anti- PLTP antibody (AAA19255).PLTP was detected in immunocytochemical section of PC-3 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 5μg/mL rabbit anti- PLTP Antibody (AAA19255) overnight at 4 degree C. DyLight®488 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.



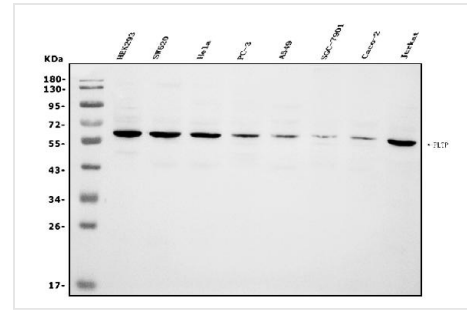
IHC (Immunohistochemistry)

Figure 3. IHC analysis of PLTP using anti-PLTP antibody (AAA19255).PLTP was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PLTP Antibody (AAA19255) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PLTP using anti-PLTP antibody (AAA19255). PLTP was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-PLTP Antibody (AAA19255) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



WB (Western Blot)

Figure 1. Western blot analysis of PLTP using anti-PLTP antibody (AAA19255). 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 µg of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates Lane 2: human SW620 whole cell lysates Lane 3: human Hela whole cell lysates Lane 4: human PC-3 whole cell lysates Lane 5: human A549 whole cell lysates Lane 6: human SGC-7901 whole cell lysates Lane 7: human Caco-2 whole cell lysates Lane 8: human Jurkat whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PLTP antigen affinity purified polyclonal antibody (Catalog # AAA19255) at 0.5 µg/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 (Catalog # with Tanon 5200 system). A specific band was detected for PLTP at approximately 65KD. The expected band size for PLTP is at 65KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PLTP antibody	Phospholipid transfer protein (PLTP), also known as lipid transfer protein II is a protein that in humans is encoded by the PLTP gene. This gene is mapped to 20q13.12. The protein encoded by this gene is one of at least two lipid transfer proteins found in human plasma. The encoded protein transfers phospholipids from triglyceride-rich lipoproteins to high density lipoprotein (HDL). In addition to regulating the size of HDL particles, this protein may be involved in cholesterol metabolism. At least two transcript variants encoding different isoforms have been found for this gene.
References	- Jiang, X., Bruce, C., Mar, J., Lin, M., Ji, Y., Francone, O. L., Tall, A. R. Targeted mutation of plasma phospholipid transfer protein gene markedly reduces high-density lipoprotein levels. <i>J. Clin. Invest.</i> 103: 907-914, 1999. - Spirin, V., Schmidt, S., Pertsemlidis, A., Cooper, R. S., Cohen, J. C., Sunyaev, S. R. Common single-nucleotide polymorphisms act in concert to affect plasma levels of high-density lipoprotein cholesterol. <i>Am. J. Hum. Genet.</i> 81: 1298-1303, 2007. - Teslovich, T. M., Musunuru, K., Smith, A. V., Edmondson, A. C., Stylianou, I. M., Koseki, M., Pirruccello, J. P., Ripatti, S., Chasman, D. I., Willer, C. J., Johansen, C. T., Fouchier, S. W., and 197 others. Biological, clinical and population relevance of 95 loci for blood lipids. <i>Nature</i> 466: 707-713, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	339275810
NCBI GeneID	5360
NCBI Accession #	NP_001229850.1
NCBI GenBank Nucleotide #	NM_001242921.1
UniProt Accession #	P55058; Q8WTT1; Q9BR07; Q9BSH8; A8K006; B4DRB4; E1P5N8; E7EV16
Molecular Weight	54,739 Da
NCBI Official Full Name	phospholipid transfer protein isoform d
NCBI Official Synonym Full Names	phospholipid transfer protein
NCBI Official Symbol	PLTP

NCBI Official Synonym Symbols	BPIFE; HDLCQ9
NCBI Protein Information	phospholipid transfer protein; lipid transfer protein II; BPI fold containing family E
UniProt Protein Name	Phospholipid transfer protein
UniProt Gene Name	PLTP
UniProt Entry Name	PLTP_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/pltp-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19255>