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Anti-PLTP Antibody
Catalog # ABO11538

Specification

Anti-PLTP Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P55058
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Phospholipid transfer protein(PLTP) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PLTP Antibody - Additional Information

Gene ID 5360

Other Names
Phospholipid transfer protein, Lipid transfer protein II, PLTP

Calculated MW
54739 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted.

Tissue Specificity
Wide tissue distribution. Placenta > pancreas > lung > kidney > heart > liver > skeletal muscle > brain.

Protein Name
Phospholipid transfer protein

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human PLTP(256-271aa QLQEEERMVYVAFSEF).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the BPI/LBP/Plunc superfamily. BPI/LBP family.

Anti-PLTP Antibody - Protein Information

Name PLTP

Function
Mediates the transfer of phospholipids and free cholesterol from triglyceride-rich lipoproteins (low density lipoproteins or LDL and very low density lipoproteins or VLDL) into high-density lipoproteins (HDL) as well as the exchange of phospholipids between triglyceride-rich lipoproteins themselves (PubMed:11013307, PubMed:19321130, PubMed:21515415, PubMed:29883800, PubMed:7654777, PubMed:9132017). Facilitates the transfer of a spectrum of different lipid molecules, including diacylglycerol, phosphatidic acid, sphingomyelin, phosphatidylcholine, phosphatidylinositol, phosphatidylglycerol, cerebroside and phosphatidyl ethanolamine (PubMed:9132017). Plays an important role in HDL remodeling which involves modulating the size and composition of HDL (PubMed:29883800). Also plays a key role in the uptake of cholesterol from peripheral cells and tissues that is subsequently transported to the liver for degradation and excretion (PubMed:21736953). Two distinct forms of PLTP exist in plasma: an active form that can transfer phosphatidylcholine from phospholipid vesicles to HDL, and an inactive form that lacks this capability (PubMed:11013307).

Cellular Location
Secreted. Nucleus. Note=Nuclear export is XPO1/CRM1- dependent.

Tissue Location
Widely expressed. Highest level of expression in the ovary, thymus and placenta, with moderate levels found in the pancreas, small intestine, testis, lung and prostrate. Low level expression in the kidney, liver and spleen, with very low levels found in the heart, colon, skeletal muscle, leukocytes and brain. Expressed in the cortical neurons.

Anti-PLTP Antibody - Protocols

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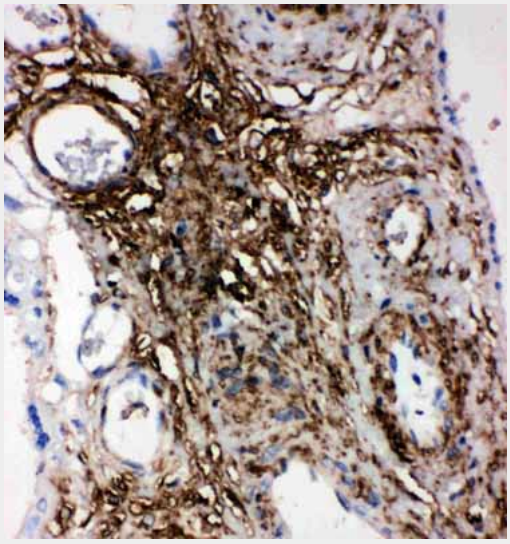
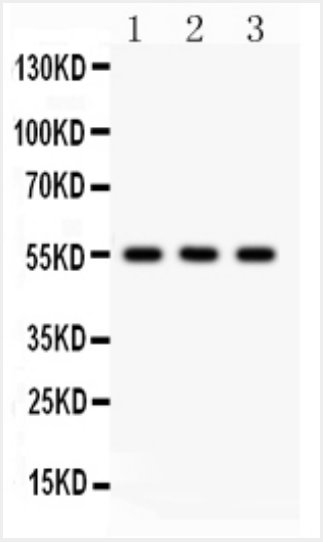
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PLTP Antibody - Images



Anti-PLTP antibody, ABO11538, IHC(P)IHC(P): Human Placenta Tissue



Anti-PLTP antibody, ABO11538,Western blottingAll lanes: Anti PLTP (ABO11538) at 0.5ug/mlLane 1: MCF-7 Whole Cell Lysate at 40ugLane 2: RAJI Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 55KDObserved bind size: 55KD

Anti-PLTP Antibody - Background

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.