

Anti-PLTP Antibody
Catalog # ABO11538**Specification****Anti-PLTP Antibody - Product Information**

Application	IHC, WB
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^o 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

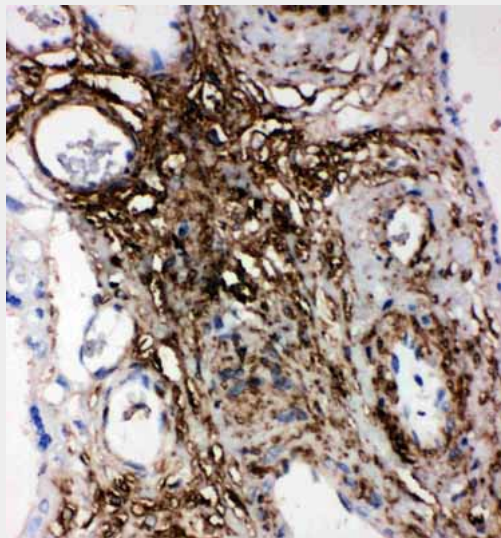
Widely expressed. Highest level of expression in the ovary, thymus and placenta, with moderate levels found in the pancreas, small intestine, testis, lung and prostate. Low level expression in the kidney, liver and spleen, with very low levels found in the heart, colon, skeletal muscle, leukocytes and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

Anti-PLTP Antibody - Protocols

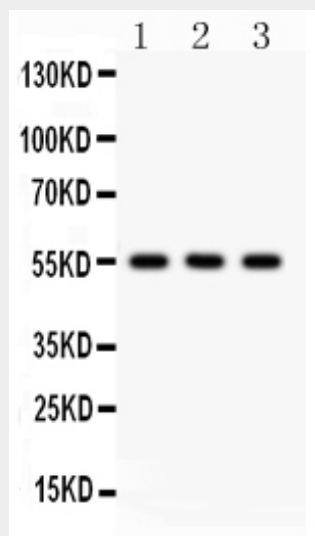
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PLTP Antibody - Images



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



Anti-PLTP antibody, ABO11538, Western blotting All lanes: Anti PLTP (ABO11538) at 0.5ug/ml Lane 1: MCF-7 Whole Cell Lysate at 40ug Lane 2: RAJI Whole Cell Lysate at 40ug Lane 3: HELA Whole Cell Lysate at 40ug Predicted bind size: 55KD Observed 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.