

PLTP Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10441**Specification**

PLTP Antibody - Product Information

Application	WB, IHC
Primary Accession	P55058
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54739

PLTP Antibody - Additional Information**Gene ID** 5360

Application & Usage	Western blotting (1:200-1000 dilutions) and in Immunohistochemistry (1:50 dilutions). However, the optimal concentrations should be determined individually. The antibody recognizes 55 kDa PLTP of human and mouse origins.
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Other Names

Phospholipid transfer protein , Lipid transfer protein II

Target/Specificity

PLTP

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg affinity purified rabbit anti-PLTP polyclonal antibody in phosphate-buffered saline (PBS) containing 1% BSA and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

PLTP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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: [7654777](http://www.uniprot.org/citations/7654777)), PubMed: [9132017](http://www.uniprot.org/citations/9132017), PubMed: [11013307](http://www.uniprot.org/citations/11013307), PubMed: [19321130](http://www.uniprot.org/citations/19321130), PubMed: [21515415](http://www.uniprot.org/citations/21515415), PubMed: [29883800](http://www.uniprot.org/citations/29883800)). Facilitates the transfer of a spectrum of different lipid molecules, including diacylglycerol, phosphatidic acid, sphingomyelin, phosphatidylcholine, phosphatidylinositol, phosphatidylglycerol, cerebroside and phosphatidyl ethanolamine (PubMed: [9132017](http://www.uniprot.org/citations/9132017)). Plays an important role in HDL remodeling which involves modulating the size and composition of HDL (PubMed: [29883800](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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.

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](#)

PLTP Antibody - Images

PLTP Antibody - Background

Plasma phospholipid transfer protein (PLTP) plays a central role in regulating plasma HDL levels and distribution of HDL subpopulations. This regulation is evidenced in vivo by markedly reduced plasma HDL levels in PLTP gene knock-out mice. PLTP also facilitates free cholesterol influx into HDL.