

PLTP Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7620b**Specification**

PLTP Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P55058
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54739
Antigen Region	451-479

PLTP Antibody (C-term) - Additional Information**Gene ID** 5360**Other Names**

Phospholipid transfer protein, Lipid transfer protein II, PLTP

Target/Specificity

This PLTP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 451-479 amino acids from the C-terminal region of human PLTP.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PLTP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLTP Antibody (C-term) - 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](#), PubMed:[9132017](#), PubMed:[11013307](#), PubMed:[19321130](#), PubMed:[21515415](#), PubMed:[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](#)). 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

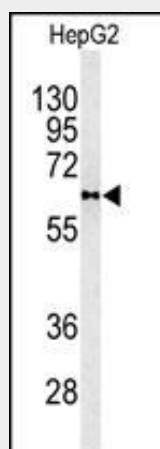
Widely expressed. Highest level of expression in the ovary, thymus and placenta, with moderate levels found in the pancreas, small intestine, testis, lung and prostate. Low level expression in the kidney, liver and spleen, with very low levels found in the heart, colon, skeletal muscle, leukocytes and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

PLTP Antibody (C-term) - Protocols

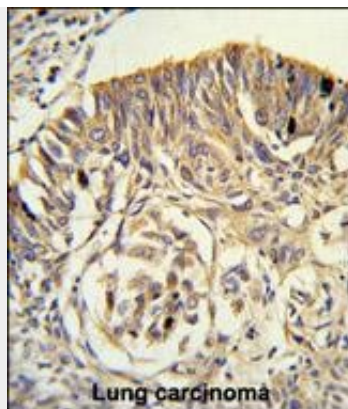
Provided below are standard protocols that you may find useful for product applications.

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

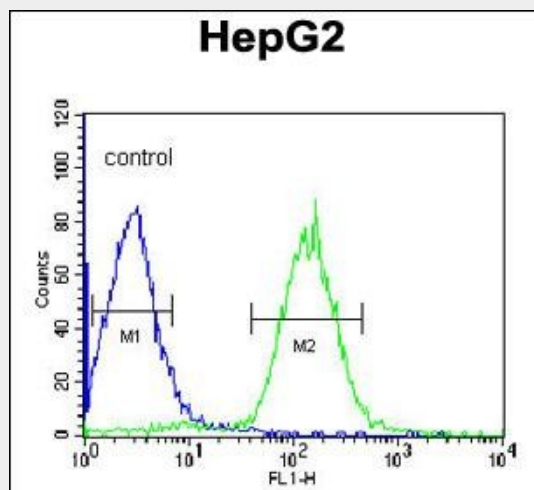
PLTP Antibody (C-term) - Images



Western blot analysis of PLTP antibody (C-term) (Cat.#AP7620b) in HepG2 cell line lysates (35ug/lane). PLTP (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with PLTP Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PLTP Antibody (C-term) (Cat. #AP7620b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PLTP Antibody (C-term) - Background

PLTP is one of at least two lipid transfer proteins found in human plasma. The 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.

PLTP Antibody (C-term) - References

Moerland, M., Samyn, H. Arterioscler. Thromb. Vasc. Biol. 28 (7), 1277-1282 (2008)
Albers, J.J., Wolfbauer, G. Biochim. Biophys. Acta 1258 (1), 27-34 (1995)