**BACKGROUND**

Phospholipid transfer protein (PLTP) is involved in reverse cholesterol transport, a key means of removal of excess cholesterol from cellular membranes for transport to the liver and subsequent secretion into the bile. PLTP remodels HDL by promoting net transfer and exchange of phospholipids among HDL subclasses and other lipoproteins. PLTP is secreted and distributed widely in various tissues including placenta, kidney, liver and brain. At least two transcript variants encoding different isoforms have been found for this gene. Protein secretion of active PLTP is observable in neurons, microglia and astrocytes in culture. PLTP is present in neurons, astrocytes, microglia and oligodendroglia.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PLTP (human) mapping to 20q13.12.

**SOURCE**

PLTP (A-12) is a mouse monoclonal antibody raised against amino acids 221-493 mapping at the C-terminus of PLTP of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. PLTP (A-12) is available conjugated to agarose (sc-271596 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271596 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-271596 PE), fluorescein (sc-271596 FITC), Alexa Fluor® 488 (sc-271596 AF488), Alexa Fluor® 546 (sc-271596 AF546), Alexa Fluor® 594 (sc-271596 AF594) or Alexa Fluor® 647 (sc-271596 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-271596 AF680) or Alexa Fluor® 790 (sc-271596 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

PLTP (A-12) is recommended for detection of precursor and mature forms of isoforms 1 and 2 of PLTP of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Suitable for use as control antibody for PLTP siRNA (h): sc-106813, PLTP shRNA Plasmid (h): sc-106813-SH and PLTP shRNA (h) Lentiviral Particles: sc-106813-V.

Molecular Weight of PLTP: 80 kDa.

Positive Controls: ESAM (h2): 293T Lysate: sc-170087 or HeLa nuclear extract: sc-2120.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.