



[Go to Product page](#)

Datasheet for ABIN2859237

PLTP ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	PLTP
Binding Specificity:	AA 18-493
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse PLTP
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E18-A493
Specificity:	Expression system for standard: NSO Immunogen sequence: E18-A493
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <20pg/mL

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target: PLTP

Alternative Name: PLTP ([PLTP Products](#))

Background: Protein Function: Facilitates the transfer of a spectrum of different lipid molecules, including diacylglycerol, phosphatidic acid, sphingomyelin, phosphatidylcholine, phosphatidylglycerol, cerebroside and phosphatidyl ethanolamine. Essential for the transfer of excess surface lipids from triglyceride-rich lipoproteins to HDL, thereby facilitating the formation of smaller lipoprotein remnants, contributing to the formation of LDL, and assisting in the maturation of HDL particles. PLTP 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. Two distinct forms of PLTP exist in plasma: an active form that can transfer PC from phospholipid vesicles to high-density lipoproteins (HDL), and an inactive form that lacks this capability (By similarity). .
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.
Synonyms: Phospholipid transfer protein,Lipid transfer protein II,Pltp,
Full Gene Name: Phospholipid transfer protein
Cellular Localisation: Secreted.

Gene ID: 18830

UniProt: [P55065](#)

Pathways: [Lipid Metabolism](#)

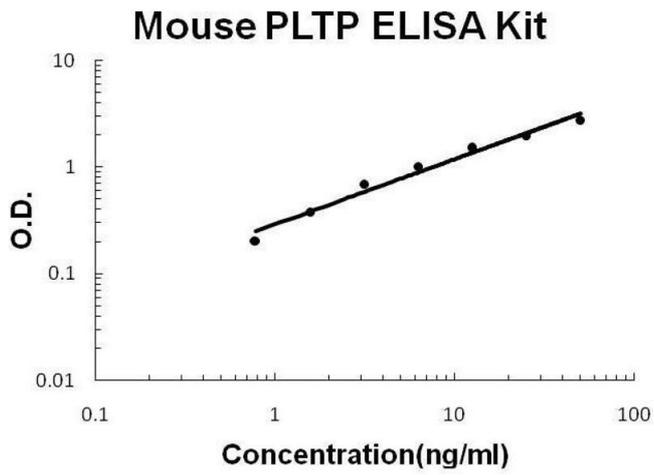
Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Highest in lung, adipose tissue, brain, and heart.
Plate:	Pre-coated
Protocol:	mouse PLTP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for PLTP has been precoated onto 96-well plates. Standards(NSO, E18-A493) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PLTP is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse PLTP amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL mouse PLTP standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each mouse PLTP standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(ng/ml): 9.4, Standard deviation: 0.498, CV(%): 5.3• Sample 2: n=16, Mean(ng/ml): 18.5, Standard deviation: 0.907, CV(%): 4.9• Sample 3: n=16, Mean(ng/ml): 27, Standard deviation: 1.134, CV(%): 4.2,• Sample 1: n=24, Mean(ng/ml): 11.2, Standard deviation: 0.75, CV(%): 6.7• Sample 2: n=24, Mean(ng/ml): 17.9, Standard deviation: 0.931, CV(%): 5.2• Sample 3: n=24, Mean(ng/ml): 31, Standard deviation: 1.49, CV(%): 4.8

Restrictions:	For Research Use only
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Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C, 4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Mouse PLTP PicoKine ELISA Kit standard curve