

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLTP in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse PLTP is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PLTP isoform 1 Glu18-Val493 (Glu18Val) Accession # P55058
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PLTP (phospholipid transfer protein) is a 75-81 kDa, secreted glycoprotein member of the BPI/LBP family of proteins. It is expressed by multiple cell types, circulates bound to HDL, and mediates the transfer of phospholipids and cholesterol from apoB-containing lipoproteins to HDL. Mature human PLTP is 476 amino acids (aa) in length. It contains an N-terminal lipid transfer domain and a C-terminal HDL-binding domain; there is one essential intrachain disulfide bond (Cys146-Cys185). There are four potential PLTP splice variants. Two show alternate start sites at Met21 and Met89. Two others demonstrate aa substitutions; one shows a one aa (Lys) substitution for aa 110-162, and a second shows a four aa substitution for the N-terminal 35 amino acids. Over aa 18-493, human PLTP shares 92% and 83% aa identity with porcine and mouse PLTP, respectively.

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