

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PLTP in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant human PLTP is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse PLTP Glu18-Ala493 (Asp32Glu) Accession # P55065
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

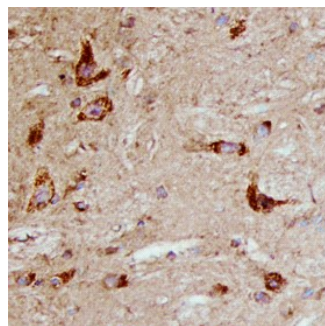
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse PLTP (Catalog # 4918-PL)
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



PLTP in Mouse Brain. PLTP was detected in perfusion fixed frozen sections of mouse brain (medulla) using Sheep Anti-Mouse PLTP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4918) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PLTP (phospholipid transfer protein) is a 65-80 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 mouse PLTP is 476 amino acids (aa) in length. It contains an N-terminal lipid transfer domain (aa 21-239), a C-terminal HDL-binding domain (aa 263-463), and one essential intrachain disulfide bond (Cys146-Cys185). There are three potential PLTP splice variants. One shows a deletion of aa 148-493, a second shows a deletion of aa 111-162, and a third shows a deletion of aa 14-33 plus a two aa substitution for aa 184-493. Over aa 18-493, mouse PLTP shares 92% and 83% aa identity with rat and human PLTP, respectively.