

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5109

DESCRIPTION

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Species Reactivity	Human	
Specificity	Detects human PLTP in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse PLTF 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	
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 either lyophilized or 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	1 µg/mL	See Below	
Knockout Validated	PLTP is specifically detected in HeLa PLTP knockout HeLa cell line.	PLTP is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in PLTP knockout HeLa cell line.	

DATA

kDa

117 -

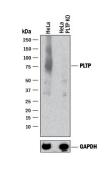
97 -

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- PITP

Western Blot Detection of human PLTP by Western Blot. Western blot shows lysates of human liver tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human PLTP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5109) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # Catalog # HAF016). A specific band was detected for PLTP at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





Western Blot Shows Human PLTP Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and PLTP knockout HeLa cell line (KO). PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human PLTP Antigen Affinitypurified Polyclonal Antibody (Catalog # AF5109) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # Catalog # HAF016). A specific band was detected for PLTP at approximately 75 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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. 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 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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