



ORDERING INFORMATION

Catalog Number: BAF5109

Lot Number: CBRG01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human PLTP

Immunogen: NS0-derived rhPLTP isoform 1

Ig Type: sheep IgG

Application: Western blot

Biotinylated Anti-human PLTP Antibody

Background

PLTP (phospholipid transfer protein) is a 65 - 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.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human PLTP (rhPLTP; aa 18 - 493; Accession # P55058, with a Glu18Val substitution). Human PLTP specific IgG was purified by human PLTP affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human PLTP Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human PLTP. The detection limit for rhPLTP is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 15% cross-reactivity with rmPLTP.

Optimal dilutions should be determined by each laboratory for each application.