abcam

Product datasheet

Recombinant Human Lipoprotein lipase ab115500

1 Image

Description

Product name	Recombinant Human Lipoprotein lipase
Purity	> 75 % SDS-PAGE. ab115500 is purified using Ni-NTA chromatography and filtered (0.4 µm) before being lyophilised.
Expression system	Escherichia coli
Accession	P06858
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MKHHHHHHASADQRRDFIDIESKFALRTPEDTAEDTCHLIP GVAESVATC HFNHSSKTFMVIHGWTVTGMYESWVPKLVAALYKREPDS NVIVVDWLSRA QEHYPVSAGYTKLVGQDVARFINWMEEEFNYPLDNVHLL GYSLGAHAAGI AGSLTNKKVNRITGLDPAGPNFEYAEAPSRLSPDDADFV DVLHTFTRGSP GRSIGIQKPVGHVDIYPNGGTFQPGCNIGEAIRVIAERGLGD VDQLVKCS HERSIHLFIDSLLNEENPSKAYRCSSKEAFEKGLCLSCRK NRCNNLGYEI SKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTESETH TNQAFEISLY GTVAESENIPFTLPEVSTNKTYSFLIYTEVDIGELLMLKLKW KSDSYFSW SDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQKG KAPAVFVKCHD KSLNKKSG
Predicted molecular weight	52 kDa including tags
Amino acids	28 to 475
Tags	His tag N-Terminus

Specifications

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Our **Abpromise guarantee** covers the use of **ab115500** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
Form	Lyophilized

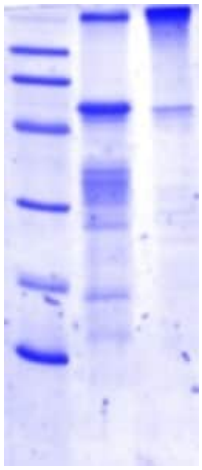
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. Constituents: 0.3% Acetic acid, 0.4% Sodium acetate
Reconstitution	To reconstitute, add 0.1M Acetate buffer pH4. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a week. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

General Info

Function	The primary function of this lipase is the hydrolysis of triglycerides of circulating chylomicrons and very low density lipoproteins (VLDL). Binding to heparin sulfate proteogylcans at the cell surface is vital to the function. The apolipoprotein, APOC2, acts as a coactivator of LPL activity in the presence of lipids on the luminal surface of vascular endothelium.
Involvement in disease	Defects in LPL are the cause of lipoprotein lipase deficiency (LPL deficiency) [MIM:238600]; also known as familial chylomicronemia or hyperlipoproteinemia type I. LPL deficiency chylomicronemia is a recessive disorder usually manifesting in childhood. On a normal diet, patients often present with abdominal pain, hepatosplenomegaly, lipemia retinalis, eruptive xanthomata, and massive hypertriglyceridemia, sometimes complicated with acute pancreatitis.
Sequence similarities	Belongs to the AB hydrolase superfamily. Lipase family. Contains 1 PLAT domain.
Post-translational modifications	Tyrosine nitration after lipopolysaccharide (LPS) challenge down-regulates the lipase activity.
Cellular localization	Cell membrane. Secreted. Locates to the plasma membrane of microvilli of hepatocytes with triacyl-glycerol-rich lipoproteins (TRL). Some of the bound LPL is then internalized and located inside non-coated endocytic vesicles.

Images



SDS-PAGE - Recombinant Human Lipoprotein lipase (ab115500)

14% SDS-PAGE showing ab115500

Lane 1: M.W. marker – 14, 21, 31, 45, 66, 97 kDa

Lane 2: reduced and boiled sample, 5µg/lane.

Lane 3: non-reduced and non-boiled sample, 5µg/lane.

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