abcam

Product datasheet

Recombinant Human Lipoprotein lipase ab115504

1 Image

Description

Product name	Recombinant Human Lipoprotein lipase
Purity	> 80 % Densitometry. ab115504 is filtered (0.4 µm).
Expression system	HEK 293 cells
Accession	**P06858**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	HVDYKDDDDKPAGADQRRDFIDIESKFALRTPEDTAEDTC HLIPGVAESV ATCHFNHSSKTFMVIHGWTVTGMYESWVPKLVAALYKRE PDSNVIVVDWL SRAQEHYPVSAGYTKLVGQDVARFINWMEEEFNYPLDNV HLLGYSLGAHA AGIAGSLTNKKVNRITGLDPAGPNFEYAEAPSRLSPDDAD FVDVLHTFTR GSPGRSIGIQKPVGHVDIYPNGGTFQPGCNIGEAIRVIAERG LGDVDQLV KCSHERSIHLFIDSLLNEENPSKAYRCSSKEAFEKGLCLS CRKNRCNNLG YEISKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTES ETHTNQAFEI SLYGTVAESENIPFTLPEVSTNKTYSFLIYTEVDIGELLMLKL KWKSDSY FSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHL QKGKAPAVFVK CHDKSLNKKSG
Predicted molecular weight	52 kDa including tags
Amino acids	28 to 475
Tags	DDDDK tag N-Terminus
Description	Recombinant Human Lipoprotein lipase

Specifications

Specifications

Our **Abpromise guarantee** covers the use of **ab115504** in the following tested applications.

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

Applications	SDS-PAGE Western blot
Form	Lyophilized

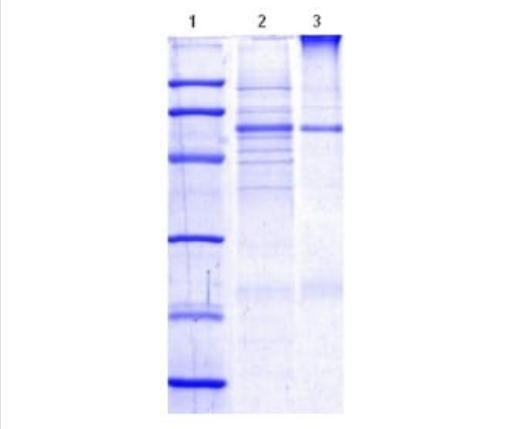
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. pH: 7.50 Constituents: 0.24% Tris buffer, 0.29% Sodium chloride
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. 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 limited period of time; it does not show any change after one week at 4°C.

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 (ab115504)

14% SDS-PAGE showing ab115504

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.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors