

LPL Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10735**Specification**

LPL Antibody - Product Information

Application	WB
Primary Accession	Q06000
Other Accession	AAH81836.1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53082

LPL Antibody - Additional Information**Gene ID** 24539

Positive Control	3T3 cell lysate, rat kidney tissue lysate
Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Rat kidney tissue lysate or 3T3 cell lysate can be used as a positive control.

Other Names

prelipoprotein lipase, lipo_lipase, lipoprotein lipase,

Target/Specificity

LPL

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-LPL polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

LPL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LPL Antibody - Protein Information**Name** Lpl**Function**

Key enzyme in triglyceride metabolism (By similarity). Catalyzes the hydrolysis of triglycerides from circulating chylomicrons and very low density lipoproteins (VLDL), and thereby plays an important role in lipid clearance from the blood stream, lipid utilization and storage (By similarity). Although it has both phospholipase and triglyceride lipase activities it is primarily a triglyceride lipase with low but detectable phospholipase activity (By similarity). Mediates margination of triglyceride-rich lipoprotein particles in capillaries (By similarity). Recruited to its site of action on the luminal surface of vascular endothelium by binding to GPIHBP1 and cell surface heparan sulfate proteoglycans (By similarity).

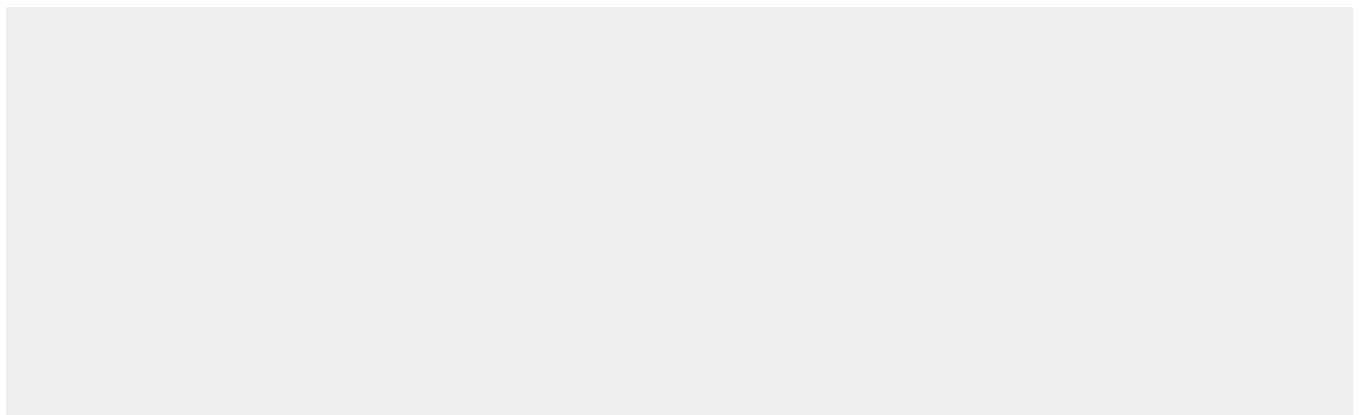
Cellular Location

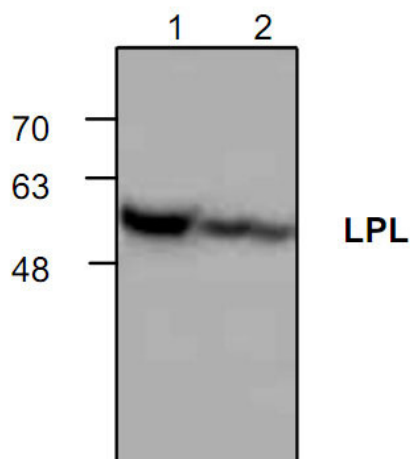
Cell membrane {ECO:0000250|UniProtKB:P11151}; Peripheral membrane protein {ECO:0000250|UniProtKB:P11151}; Extracellular side {ECO:0000250|UniProtKB:P11151}. Secreted {ECO:0000250|UniProtKB:P11151}. Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P11151}. Note=Newly synthesized LPL binds to cell surface heparan proteoglycans and is then released by heparanase. Subsequently, it becomes attached to heparan proteoglycan on endothelial cells. Locates to the plasma membrane of microvilli of hepatocytes with triglyceride-rich lipoproteins (TRL) Some of the bound LPL is then internalized and located inside non- coated endocytic vesicles. {ECO:0000250|UniProtKB:P11151}

LPL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LPL Antibody - Images



Western blot analysis of LPL with lysate from rat kidney (Lane 1) and 3T3 cells (Lane 2).

LPL Antibody - Background

Lipoprotein lipase (LPL) is mainly expressed in the heart, muscle and adipose tissue. LPL is a homodimer that mediates the hydrolysis of triglycerides of very low density lipoproteins and also function as ligand/bridging factor for receptor-mediated lipoprotein uptake. Defects in LPL may result in hypertriglyceridemia.