LPL (F-1): sc-373759

**BACKGROUND**

The lipase gene family belongs to one of the most robust genetic superfamilies found in living organisms, which includes esterases and thioesterases. Lipase gene products are related by tertiary structure rather than primary amino acid sequence. Members of the AB hydrolase subfamily include hepatic lipase (HL), endothelial lipase (EL), lipoprotein lipase (LPL) and pancreatic lipase (PL). HL balances the composition and transport of lipoproteins in human plasma. Synthesized in endothelial cells, EL hydrolyzes high density lipoproteins. LPL, a homodimer attached to the membrane by a GPI-anchor, mediates the hydrolysis of triglycerides of very low density lipoproteins and circulating chylomicrons. Defects in LPL may cause chylomicronemia syndrome or a form of lipoprotein lipase deficiency characterized by hypertyglyceridemia.

**CHROMOSOMAL LOCATION**

Genetic locus: LPL (human) mapping to Bp21.3; Lpl (mouse) mapping to B3.3.

**SOURCE**

LPL (F-1) is a mouse monoclonal antibody raised against amino acids 28-80 mapping near the N-terminus of LPL of human origin.

**PRODUCT**

Each vial contains 200 μg IgG2b, kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

LPL (F-1) is available conjugated to agarose (sc-373759 AC), 500 μg/0.25 ml agarose in 1 ml, for IP, to HRP (sc-373759 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373759 PE), fluorescein (sc-373759 FITC), Alexa Fluor® 488 (sc-373759 AF488), Alexa Fluor® 546 (sc-373759 AF546), Alexa Fluor® 594 (sc-373759 AF594) or Alexa Fluor® 647 (sc-373759 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373759 AF680) or Alexa Fluor® 790 (sc-373759 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

LPL (F-1) is recommended for detection of LPL of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1:2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of LPL: 56 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, NIH/3T3 whole cell lysate: sc-2210 or MCF7 whole cell lysate: sc-2206.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.