10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LIPC Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11249a

Product Information

Application	WB, FC, E
Primary Accession	P11150
Other Accession	NP_000227.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28445
Calculated MW	55914
Antigen Region	9-36

Additional Information

Gene ID	3990
Other Names	Hepatic triacylglycerol lipase, HL, Hepatic lipase, Lipase member C, LIPC, HTGL
Target/Specificity	This LIPC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-36 amino acids from the N-terminal region of human LIPC.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LIPC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LIPC
Synonyms	HTGL
Function	Catalyzes the hydrolysis of triglycerides and phospholipids present in circulating plasma lipoproteins, including chylomicrons, intermediate density

lipoproteins (IDL), low density lipoproteins (LDL) of large size and high density lipoproteins (HDL), releasing free fatty acids (FFA) and smaller lipoprotein particles (PubMed:12032167, PubMed:26193433, PubMed:7592706, PubMed:8798474). Also exhibits lysophospholipase activity (By similarity). Can hydrolyze both neutral lipid and phospholipid substrates but shows a greater binding affinity for neutral lipid substrates than phospholipid substrates (By similarity). In native LDL, preferentially hydrolyzes the phosphatidylcholine species containing polyunsaturated fatty acids at sn-2 position (PubMed:26193433).

Cellular Location Secreted.

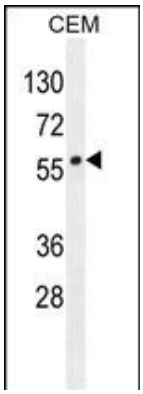
Background

LIPC encodes hepatic triglyceride lipase, which is expressed in liver. LIPC has the dual functions of triglyceride hydrolase and ligand/bridging factor for receptor-mediated lipoprotein uptake.

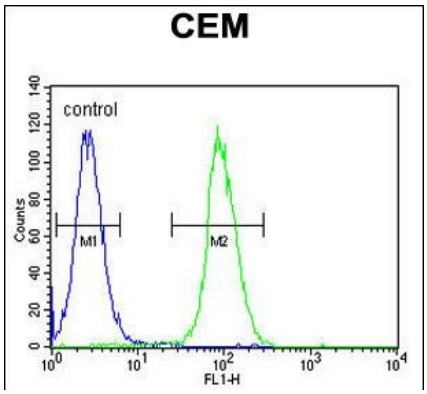
References

Reynolds, R., et al. Ophthalmology 117(10):1989-1995(2010)
Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010)
Hu, M., et al. Pharmacogenet. Genomics 20(10):634-637(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Kashani Farid, M.A., et al. Lipids Health Dis 9, 96 (2010) :

Images



LIPC Antibody (N-term) (Cat. #AP11249a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the LIPC antibody detected the LIPC protein (arrow).



LIPC Antibody (N-term) (Cat. #AP11249a) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.