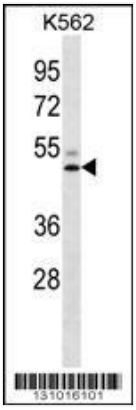
LIPC Antibody – Rabbit Polyclonal

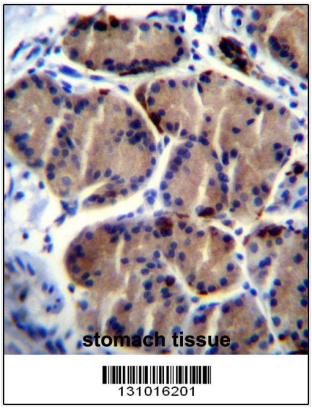
PRODUCT OVERVIEW

Product Name	LIPC, Polyclonal Antibody
Full Product Name	LIPC, ID (LIPC, HTGL, Hepatic triacylglycerol lipase, Lipase member C) (PE)
Product Gene Name	anti-LIPC antibody
Product Synonym Names	LIPC; HTGL; Hepatic triacylglycerol lipase; Lipase member C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	55,914 Da
OMIM	125853
3D Structure	ModBase 3D Structure for P11150
Immunogen	LIPC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-338 amino acids from the Central region of human LIPC.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-LIPC antibody	Antibodies; Enzymes; Lipase
Applications Tested/Suitable for anti-LIPC antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-LIPC antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-LIPC antibody	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.
Product References and Citations for anti-LIPC antibody	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).

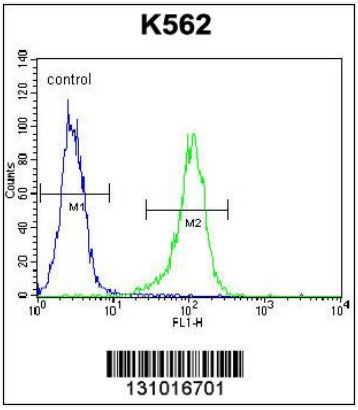
Other Notes	Small volumes of anti-LIPC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LIPC purchase	MBS6316404 is an antibody targeting LIPC. Also known as LIPC, ID (LIPC, HTGL, Hepatic triacylglycerol lipase, Lipase member C) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LIPC antibody
LIPC Antibody (Center) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the LIPC antibody detected the LIPC protein (arrow).



Immunohistochemistry (IHC) of anti-LIPC antibody
LIPC Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of LIPC Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-LIPC antibody
LIPC Antibody (Center) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIPC. It may not necessarily be applicable to this product.

NCBI GI #	194097335
NCBI GeneID	3990
NCBI Accession #	NP_000227.2
UniProt Primary Accession #	P11150
UniProt Secondary Accession #	O43571; P78529; Q99465; A2RUB4; A8K9B6
UniProt Related Accession #	P11150
GenBank Nucleotide #	NM_000236.2
NCBI Official Full Name	hepatic triacylglycerol lipase

NCBI Official Synonym Full Names	lipase, hepatic
NCBI Official Symbol	LIPC
NCBI Official Synonym Symbols	HL; HTGL; LIPH; HDLCQ12
UniProt Protein Name	Hepatic triacylglycerol lipase
UniProt Synonym Protein Names	Lipase member C
Protein Family	Hepatic triacylglycerol lipase
UniProt Gene Name	LIPC
UniProt Synonym Gene Names	HTGL; HL
UniProt Entry Name	LIPC_HUMAN
NCBI Protein Information	hepatic triacylglycerol lipase; hepatic lipase; lipase member C
UniProt Comments for LIPC	LIPC: Hepatic lipase has the capacity to catalyze hydrolysis of phospholipids, mono-, di-, and triglycerides, and acyl-CoA thioesters. It is an important enzyme in HDL metabolism. Hepatic lipase binds heparin. Defects in LIPC are the cause of hepatic lipase deficiency (HL deficiency). A disorder characterized by elevated levels of beta-migrating very low density lipoproteins, and abnormally triglyceride-rich low and high density lipoproteins. Belongs to the AB hydrolase superfamily. Lipase family. Protein type: Secreted, signal peptide; EC 3.1.1.3; Lipid Metabolism - glycerolipid; Phospholipase; Secreted Chromosomal Location of Human Ortholog: 15q21-q23 Cellular Component: extracellular space Molecular Function: heparin binding; triacylglycerol lipase activity; low-density lipoprotein binding; apolipoprotein binding; phospholipase activity Biological Process: cholesterol metabolic process; cholesterol homeostasis; reverse cholesterol transport; triacylglycerol catabolic process; fatty acid biosynthetic process Disease: High Density Lipoprotein Cholesterol Level Quantitative Trait Locus 12; Hepatic Lipase Deficiency; Diabetes Mellitus, Noninsulin-dependent
Research Articles on LIPC	**1.** The findings suggest that LIPC and LPL genes could both modify the risk for AMD and the metabolism of lutein and zeaxanthin.
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