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Datasheet for 600-401-H01

LIPE Antibody

Overview

Description:	Anti-LIPE (RABBIT) Antibody - 600-401-H01
Item No.:	600-401-H01
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Lipe antibody detects human Lipe. Although initially described as an adipocyte-specific triacylglycerol lipase, lipe (also known as hormone-specific lipase or HSL) is expressed in multiple tissues and cell lines. It plays multiple roles in lipid metabolism, including hormone-stimulated lipolysis in adipose tissue and the hydrolysis of cholesterol esters. Lipe is expressed as a long and a short form, generated by use of alternative translational start codons. The long form is expressed in steroidogenic tissues such as testis, where it converts cholesterol esters to free cholesterol for steroid hormone production. The short form is expressed in adipose tissue, among others, where it hydrolyzes stored triglycerides to free fatty acids. Recently, it was observed that the lack of lipe in genetically obese leptin-null mice inhibited obesity and adipogenesis, suggesting that lipe plays a major role in adipocyte proliferation. Anti-Lipe antibodies are ideal for investigators involved in Apolipoprotein research.
Synonyms:	hormone-sensitive lipase, HSL, Lipase E, Hormone Sensitive Type, Lipase, Hormone-Sensitive, Hormone-Sensitive Lipase Testicular Isoform, Hormone-Sensitive Lipase, EC 3.1.1.79, AOMS4, FPLD6, LHS
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LIPE
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Lipe Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of human lipe.
Purity/Specificity:	Anti-Lipe Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Lipe with Human, Rat and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Lipe from other sources has not been determined.
Relevant Links:	• NCBI - NP_005348.2 • UniProtKB - Q05469 • GeneID - 3991

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Lipe Antibody is tested for use in E, WB, IF, and IHC. Expect a band approximately ~116.5 kDa on specific lysates. Western Blot, Immunohistochemistry, and Immunofluorescence tested in human samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	20µg/mL
IHC:	2.5µg/mL
WB:	0.5-1 ug/mL

Formulation

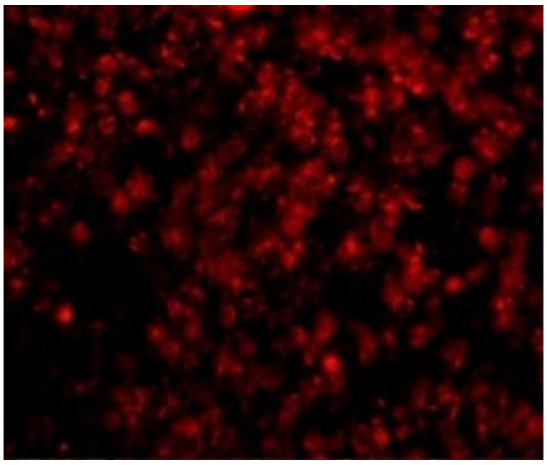
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

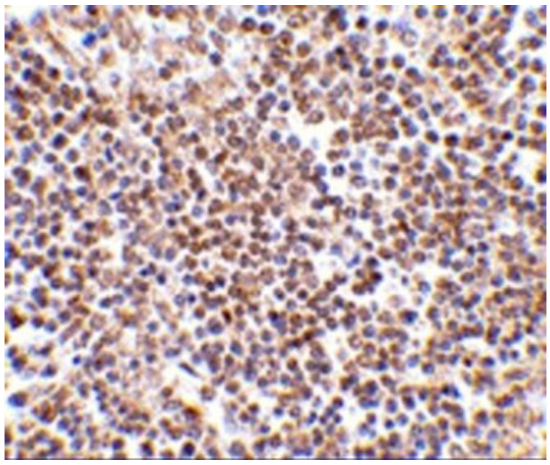
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

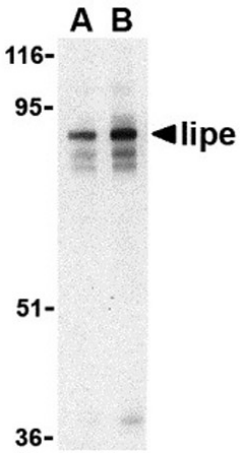
Images



Immunofluorescence Microscopy
Immunofluorescence of Lipe.
Cell: Human Lymph Node cells.
Primary Antibody: Anti-Lipe antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of Lipe.
Tissue: human lymph node tissue.
Primary Antibody: Anti-Lipe antibody at 2.5 µg/mL.



Western Blot
Western blot analysis of Lipe.
Load: human lymph node tissue lysate per lane:
Primary Antibody: Anti-Lipe antibody at (A) 0.5 µg/mL and (B) 1 µg/mL.

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