

Product datasheet for **TA306363**

Hormone sensitive lipase (LIPE) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Lipe antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human lipe.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	lipase E, hormone sensitive type
Database Link:	NP_005348 Entrez Gene 16890 Mouse Entrez Gene 25330 Rat Entrez Gene 3991 Human Q05469



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Background:

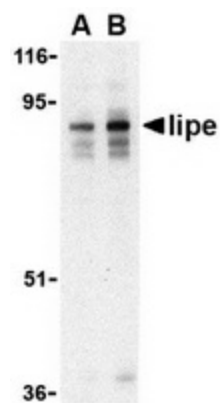
Although initially described as an adipocyte-specific triacylglycerol lipase, lipe (also known as hormone-specific lipase or HSL) is expressed in multiple tissues and cell lines. It plays multiple roles in lipid metabolism, including hormone-stimulated lipolysis in adipose tissue and the hydrolysis of 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.

Synonyms:

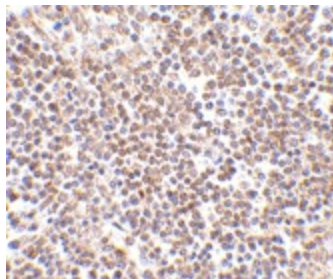
AOMS4; FPLD6; HSL; LHS

Protein Pathways:

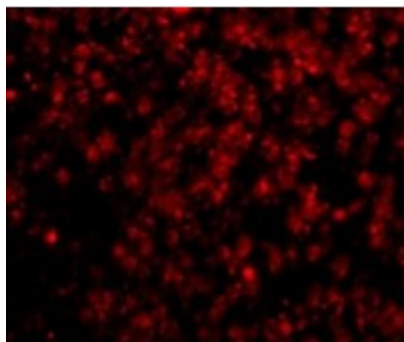
Insulin signaling pathway

Product images:

Western blot analysis of lipe in human lymph node tissue lysate with lipe antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of lipe in human lymph node tissue with lipe antibody at 2.5 ug/ml.



Immunofluorescence of Lipe in Human Lymph Node cells with Lipe antibody at 20 ug/mL.