

## Rabbit Anti-HSL/LIPE antibody

SL0455R

**Product Name** HSL/LIPE

**Chinese Name** 荷尔蒙敏感脂肪酶抗体

**Alias** Hormone sensitive lipase; hormone-sensitive lipase; Hormone sensitive lipase testicular isoform; HSL; LHS; Lipase hormone sensitive; LIPE; Hormone-sensitive lipase; LIPS\_HUMAN.

**Research Area** Cardiovascular immunology Growth factors and hormones Diabetes

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Rat (predicted:Fruit Fly)

**Applications** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 116kDa

**Cellular localization** cytoplasmic The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from rat HSL: 261-360/1068

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

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HSL ( hormone- sensitive lipase ) is an enzyme involved in hydrolysis of stored triglycerides and fatty acids; important for regulation of energy homeostasis. It has 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 cholesteryl 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.

**Function:**

In adipose tissue and heart, it primarily hydrolyzes stored triglycerides to free fatty acids, while in steroidogenic tissues, it principally converts cholesteryl esters to free cholesterol for steroid hormone production.

**Subunit:**

Interacts with PTRF in the adipocyte cytoplasm.

**Subcellular Location:**

Cell membrane. Membrane, caveola. Cytoplasm, cytosol.

**Similarity:**

Belongs to the 'GDXG' lipolytic enzyme family.

**Product  
Detail**

**SWISS:**

P15304

**Gene ID:**

25330

**Database links:**

[Entrez Gene: 3991](#) Human

[Entrez Gene: 16890](#) Mouse

[Entrez Gene: 25330](#) Rat

[Omim: 151750](#) Human

[SwissProt: Q05469](#) Human

[SwissProt: Q6NSL7](#) Human

[SwissProt: P54310](#) Mouse

[SwissProt: P15304](#) Rat

[Unigene: 656980](#) Human

[Unigene: 158548](#) Mouse

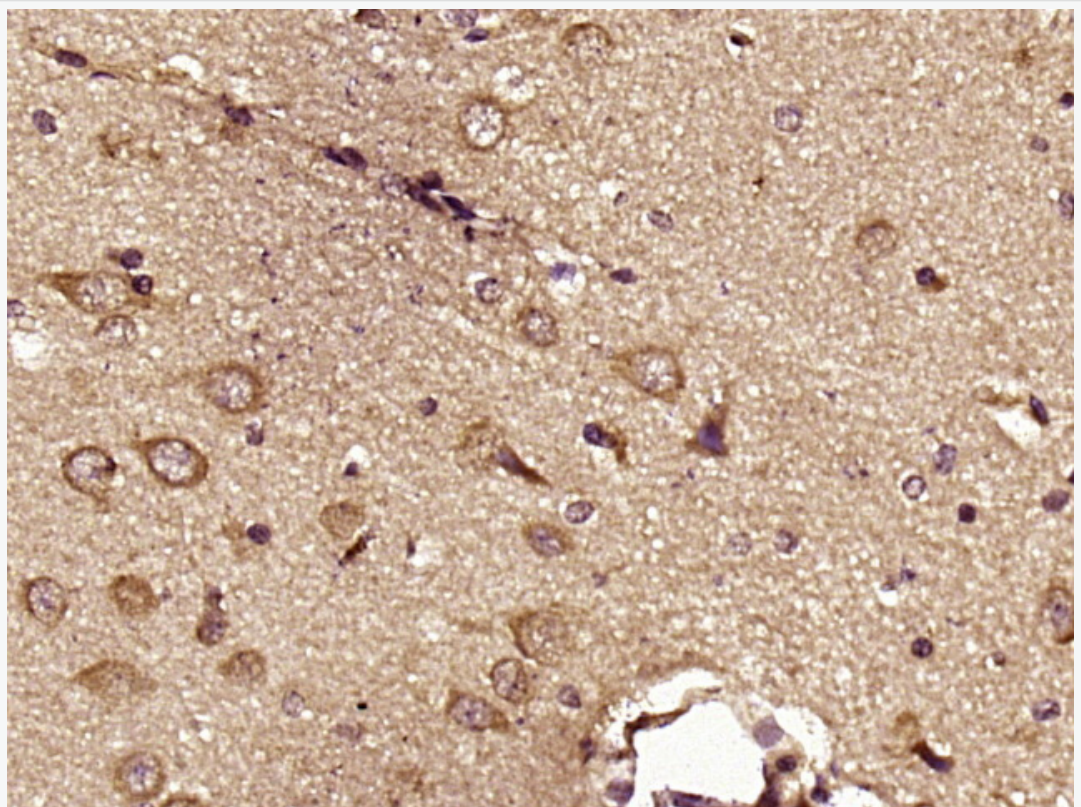
[Unigene: 333679](#) Mouse

[Unigene: 10566](#) Rat

HSL 又称：敏感性甘油三酯脂肪酶，在脂肪动员中，脂肪细胞内激素敏感性甘油三酯脂肪酶（HSL）起决定性作用，它是脂肪分解的限速酶，称为激素敏感性脂肪酶。

肾上腺素、去甲肾上腺素、胰高血糖素等激活 HSL 促进脂肪动员；胰岛素，前列腺素 E 及烟酸等抑制 HSL，抑制脂肪的动员。

**Product  
Picture**



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase



by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSL LIPE) Polyclonal Antibody, Unconjugated (SL0455R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.