

**Anti-HSL Antibody**  
Rabbit polyclonal antibody to HSL  
Catalog # AP59608**Specification**

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**Anti-HSL Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q05469</a>
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116598

**Anti-HSL Antibody - Additional Information****Gene ID** 3991**Other Names**

Hormone-sensitive lipase; HSL

**Target/Specificity**

Recognizes endogenous levels of HSL protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IP (1/10 - 1/100)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-HSL Antibody - Protein Information****Name** LIPE**Function**

Lipase with broad substrate specificity, catalyzing the hydrolysis of triacylglycerols (TAGs), diacylglycerols (DAGs), monoacylglycerols (MAGs), cholesteryl esters and retinyl esters (PubMed: [15716583](http://www.uniprot.org/citations/15716583)), PubMed: [15955102](http://www.uniprot.org/citations/15955102), PubMed: [19800417](http://www.uniprot.org/citations/19800417), PubMed: [8812477](http://www.uniprot.org/citations/8812477)). Shows a preferential hydrolysis of DAGs over TAGs and MAGs and preferentially hydrolyzes the fatty acid (FA) esters at the sn-3 position of the glycerol backbone in DAGs (PubMed: [19800417](http://www.uniprot.org/citations/19800417)). Preferentially hydrolyzes FA esters at the sn-1 and sn-2 positions of the glycerol backbone in TAGs (By

similarity). Catalyzes the hydrolysis of 2-arachidonoylglycerol, an endocannabinoid and of 2-acetyl monoalkylglycerol ether, the penultimate precursor of the pathway for de novo synthesis of platelet-activating factor (By similarity). In adipose tissue and heart, it primarily hydrolyzes stored triglycerides to free fatty acids, while in steroidogenic tissues, it principally converts cholesterol esters to free cholesterol for steroid hormone production (By similarity).

#### Cellular Location

Cell membrane. Membrane, caveola. Cytoplasm, cytosol. Lipid droplet {ECO:0000250|UniProtKB:P54310}. Note=Found in the high-density caveolae. Translocates to the cytoplasm from the caveolae upon insulin stimulation (PubMed:17026959). Phosphorylation by AMPK reduces its translocation towards the lipid droplets (By similarity) {ECO:0000250|UniProtKB:P54310, ECO:0000269|PubMed:17026959}

#### Tissue Location

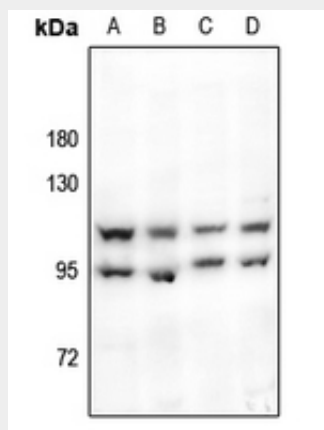
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### Anti-HSL Antibody - Protocols

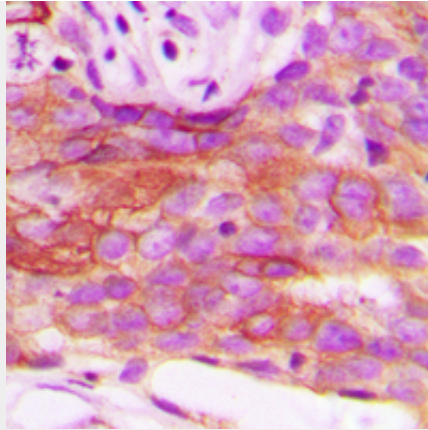
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-HSL Antibody - Images



Western blot analysis of HSL expression in Panc1 (A), SKOV3 (B), C6 (C), 3T3L1 (D) whole cell lysates.



Immunohistochemical analysis of HSL staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-HSL Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HSL. The exact sequence is proprietary.