

Rabbit HSL Polyclonal Antibody | anti-HSL antibody

Phospho-HSL (Ser660) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31384	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (88%), Horse (89%), Dog (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

HSL; Polyclonal Antibody; Phospho-HSL (Ser660) Antibody; Hormone sensitive lipase; Hormone sensitive lipase testicular isoform; Hormone-sensitive lipase; LHS; Lipase hormone sensitive; LIPE; LIPS_HUMAN; anti-HSL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (88%), Horse (89%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-HSL (Ser660) Antibody detects endogenous levels of HSL only when phosphorylated at Ser660.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HSL antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human HSL around the phosphorylation site of Ser660.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation by AMPK may block translocation to lipid droplets.
Subunit Structure	Interacts with CAVIN1 in the adipocyte cytoplasm. Interacts with PLIN5 (By similarity).
Similarity	Belongs to the 'GDXG' lipolytic enzyme family.
Subcellular Location	Cell membrane. Membrane>Caveola. Cytoplasm>Cytosol. Note: Found in the high-density caveolae. Translocates to the cytoplasm from the caveolae upon insulin stimulation.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Red), diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



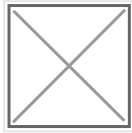
IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of HSL (Phospho-Ser660) using TNF-a treated HeLa whole cell lysates.- /+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-HSL antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21328446
NCBI GeneID	3991
NCBI Accession #	NP_005348.2
NCBI GenBank Nucleotide #	NM_005357.2
UniProt Accession #	Q05469; Q3LRT2; Q6NSL7
Molecular Weight	116,598 Da
NCBI Official Full Name	hormone-sensitive lipase
NCBI Official Synonym Full Names	lipase, hormone-sensitive
NCBI Official Symbol	LIPE
NCBI Official Synonym Symbols	HSL; LHS
NCBI Protein Information	hormone-sensitive lipase; hormone-sensitive lipase testicular isoform
UniProt Protein Name	Hormone-sensitive lipase
UniProt Gene Name	LIPE

UniProt Synonym Gene Names	HSL
UniProt Entry Name	LIPS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsl-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31384>