HSL (Phospho Ser855) Rabbit pAb

CatalogNo: YP0602 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 81kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human HSL around the phosphorylation site of Ser855/554. AA range:520-569

Specificity Phospho-HSL (S855) Polyclonal Antibody detects endogenous levels of HSL protein only when phosphorylated at S855.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SVsEA

Target Information

Gene name LIPE

Protein Name Hormone-sensitive lipase

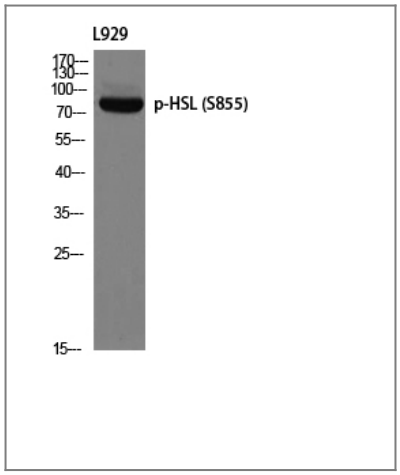
Organism	Gene ID	UniProt ID
Human	3991;	Q05469;
Mouse	16890;	P54310;
Rat	25330;	P15304;

Cellular Localization Cell membrane . Membrane, caveola . Cytoplasm, cytosol . Lipid droplet . 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). .

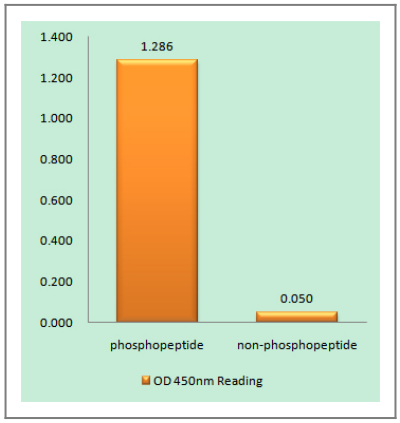
Tissue specificity Testis.

Function Catalytic activity:Diacylglycerol + H(2)O = monoacylglycerol + a carboxylate.,Catalytic activity:Monoacylglycerol + H(2)O = glycerol + a carboxylate.,Catalytic activity:Triacylglycerol + H(2)O = diacylglycerol + a carboxylate.,enzyme regulation:Rapidly activated by cAMP-dependent phosphorylation under the influence of catecholamines. Dephosphorylation and inactivation are controlled by insulin.,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.,pathway:Glycerolipid metabolism; triacylglycerol degradation.,similarity:Belongs to the 'GDXG' lipolytic enzyme family.,subcellular location:Found in the high-density caveolae. Translocates to the cytoplasm from the caveolae upon insulin stimulation.,subunit:Interacts with PTRF in the adipocyte cytoplasm.,

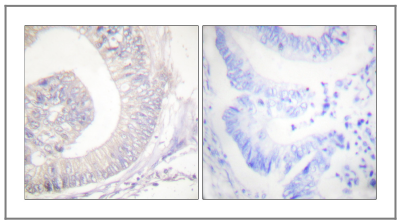
Validation Data



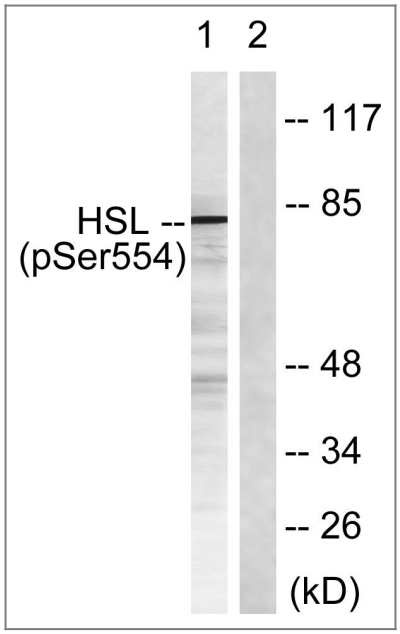
Western blot analysis of L929 using p-HSL (S855) antibody. Antibody was diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HSL (Phospho-Ser855/554) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using HSL (Phospho-Ser855/554) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Adriamycin 0.5ng/ml 24h, using HSL (Phospho-Ser855/554) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
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