

HSL (Phospho Ser853) (PT1168R) PT™ Rabbit mAb

CatalogNo: YM9017 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 117kD (Calculated)
- 83kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:2000-1:10000**IF 1:200-1:1000****ELISA 1:5000-1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT1168R

Immunogen Information

Specificity

HSL (Phospho Ser853) Antibody detects endogenous levels of HSL protein only when phosphorylated at S853. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RRsVS

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

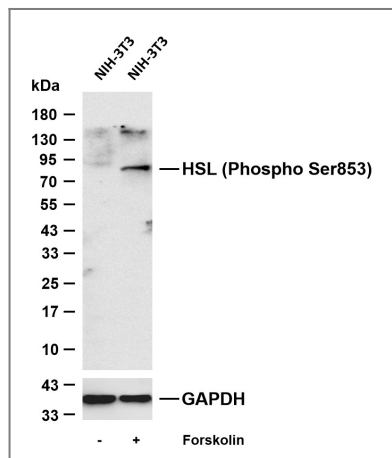
Cell membrane . Membrane, caveola . Cytoplasm, cytosol . Lipid droplet . Found in the high-density caveolae. Translocates to the cytoplasm from the caveolae upon insulin stimulation (PubMed:17026959). Phosphorylation by AMPK reduces its translocation towards the lipid droplets (By similarity). .

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



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HSL (Phospho Ser853) (PT1168R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: NIH-3T3 was treated with Forskolin(10 μ M) for 1 hour Predicted band size: 117kDa Observed band size: 83kDa

| Contact information

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HSL (Phospho Ser853) (PT1168R) PT™ Rabbit mAb

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