

## HSL Polyclonal Antibody

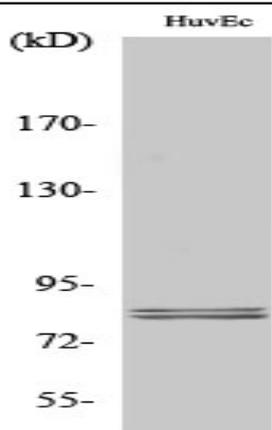
<b>Catalog No :</b>	YT2240
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	HSL
<b>Fields :</b>	>>cAMP signaling pathway;>>AMPK signaling pathway;>>Apelin signaling pathway;>>Thermogenesis;>>Insulin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Aldosterone synthesis and secretion
<b>Gene Name :</b>	LIPE
<b>Protein Name :</b>	Hormone-sensitive lipase
<b>Human Gene Id :</b>	3991
<b>Human Swiss Prot No :</b>	Q05469
<b>Mouse Gene Id :</b>	16890
<b>Mouse Swiss Prot No :</b>	P54310
<b>Rat Gene Id :</b>	25330
<b>Rat Swiss Prot No :</b>	P15304
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human HSL. AA range:518-567
<b>Specificity :</b>	HSL Polyclonal Antibody detects endogenous levels of HSL protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

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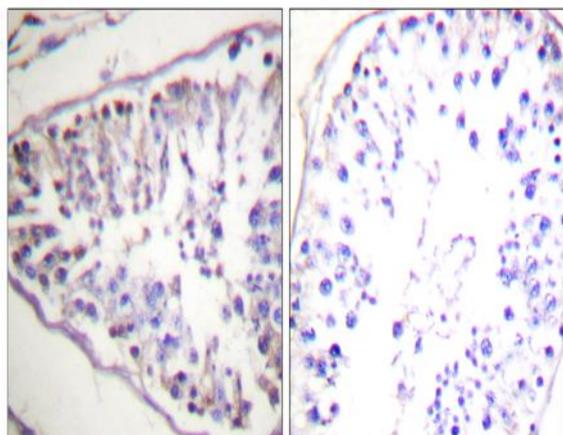
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	85kD
<b>Cell Pathway :</b>	Insulin Receptor; AMPK
<b>Background :</b>	The protein encoded by this gene 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. [provided by RefSeq, Jul 2008],
<b>Function :</b>	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 wi
<b>Subcellular Location :</b>	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). .
<b>Expression :</b>	Testis.

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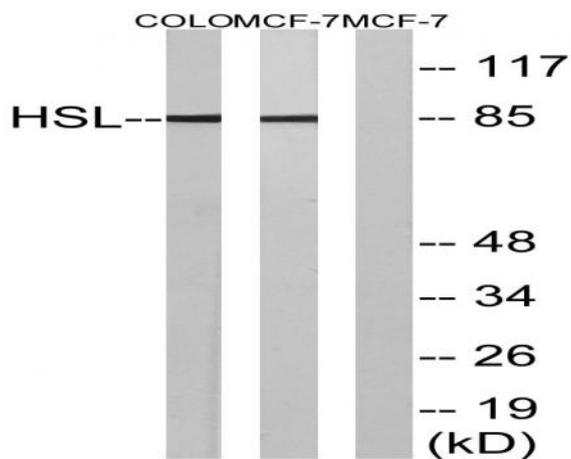
## Products Images



Western Blot analysis of various cells using HSL Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human tonsil tissue, using HSL Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO and MCF7 cells, using HSL Antibody. The lane on the right is blocked with the synthesized peptide.