## Phospho-HSL (Ser660) Antibody



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rev. 08/22/16

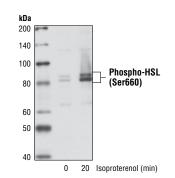
## For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source	
W Endogenous	M, R	81, 83 kDa	Rabbit**	

**Background:** HSL (hormone-sensitive lipase) catalyzes the hydrolysis of triacylglycerol, the rate-limiting step in lipolysis. Lipolytic stimuli activate adenylyl cyclase and thus increase intracellular cAMP levels, which in turn activates protein kinase A (PKA). PKA phosphorylates HSL at Ser563, Ser659 and Ser660, which stimulates HSL activity (1,2). In contrast, AMPK phosphorylates HSL at Ser565, which reduces HSL phosphorylation at Ser563 by PKA and inhibits HSL activity (2,3). Recent work indicates that phosphorylation at Ser600 by p44/42 MAPKs also enhances the enzymatic activity of HSL (4).

Specificity/Sensitivity: Phospho-HSL (Ser660) Antibody detects endogenous levels of HSL only when phosphorylated at Ser660 by PKA. This antibody does not cross-react with Ser563, Ser565 or Ser659 phosphorylated HSL.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser651 of mouse HSL (equivalent to Ser660 of rat HSL). Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from differentiated 3T3-L1 cells treated with isoproterenol, using Phospho-HSL (Ser660) Entrez-Gene ID #3991 Swiss-Prot Acc. #Q05469

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

## **Recommended Antibody Dilutions:**

Western blotting

1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

## **Background References:**

- (1) Degerman, E. et al. (1990) Proc. Natl. Acad. Sci. USA 87,
- (2) Anthonsen, M.W. et al. (1998) J. Biol. Chem. 273, 215-221.
- (3) Garton, A.J. and Yeaman, S.J. (1990) Eur. J. Biochem. 191, 245-250.
- (4) Greenberg, A.S. et al. (2001) J. Biol. Chem. 276, 45456-

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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