

HSL (D6W5S) XP[®] Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 81, 83	Source/Isotype: Rabbit IgG	UniProt ID: #Q05469	Entrez-Gene Id 3991
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	iistry)		Dilution 1:1000 1:100 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		HSL (D6W5S) XP [®] Rabbit mAb recognizes endogenous levels of total HSL protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His946 of human HSL protein.				
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 activate 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).				
Background Re	ferences	2. Anthonsen, M.W. et	al. (1998) <i>J. Biol. Ch</i> man, S.J. (1990) <i>Eul</i>	r. J. Biochem. 191, 245-50		
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Bu	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween $\$$ 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytocl				ytochemistry)
Cross-Reactivity Key		H: Human M: Mouse				
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