HSL (D6W5S) XP <sup>®</sup> Rabbit mAb			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#18381	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Ma	assachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: WB, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 81, 83	Source/Isotype: Rabbit IgG	UniProt ID: #Q05469	Entrez-Gene Id: 3991	
Product Usage Information	-	oplication				Dilution	
		estern Blotting				1:1000	
		munoprecipitation				1:100	
	Im	munofluorescence (	Immunocytochen	nistry)		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 / Sens	itivity HS	HSL (D6W5S) $XP^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total HSL protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His946 of human HSL protein.					
Background	Lip pro act Se	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 Refe	2. A 3. (	Anthonsen, M.W. et a Garton, A.J. and Yea	al. (1998) <i>J. Biol.</i> man, S.J. (1990)	Acad. Sci. USA 87, 533 Chem. 273, 215-21. Eur. J. Biochem. 191, 2 Chem. 276, 45456-61.			
Species Reactivit	<b>y</b> Spe	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	vestern blot).	
Western Blot Buf		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	WE	: Western Blotting I	P: Immunoprecipi	itation IF-IC: Immunoflu	orescence (Immunoc	ytochemistry)	
Cross-Reactivity	X: ×	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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