Phospho-HSL (Ser565) Antibody





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Applications: W, IF-IC	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 81, 83	Source/Isotype: Rabbit	UniProt ID: #Q05469	Entrez-Gene Id: 3991		
Product Usage Information		Application Western Blotting Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:250		
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.						
Specificity/Sen	sitivity	Phospho-HSL (Ser565) Antibody detects endogenous levels of HSL only when phosphorylated at Ser565 by AMPK. This antibody does not cross-react with Ser563 phosphorylated HSL.						
Species predict based on 100% homology	ted to react sequence	Human, Rat						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser554 of human HSL (Ser565 of rat HSL). Antibodies are purified by protein A and peptide affinity chromatography.						
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	eferences	2. Anthonsen, M.W. et	al. (1998) <i>J. Biol. Ch</i> man, S.J. (1990) <i>Eu</i>	<i>. J. Biochem.</i> 191, 245-50				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	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 K	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ту Кеу	M: Mouse						
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