e at -20C	AceCS1 (D19C6) Rabbit mAb		CHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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#	3 Tr	ask Lane Danvers Ma	ssachusetts 01923 USA

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NR19	Entrez-Gene Id: 55902		
		Endogenous	10	Rabbit igo	#Q91413	55902		
Product Usage		Application			Dilution			
Information		Western Blotting			1:1000			
		Immunoprecipitation			1:50			
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		AceCS1 (D19C6) Rabbit mAb detects endogenous levels of total cytoplasmic acetyl-CoA synthetase (AceCS1).						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human cytoplasmic acetyl-CoA synthetase (AceCS1).						
Background		Cytoplasmic acetyl-CoA synthetase (AceCS1) catalyzes the conversion of acetate and CoA to acetyl-CoA (1, 2). Acetyl-CoA synthesized by AceCS1 is used for fatty acid and lipid biosynthesis (1, 2). Studies suggest that this enzyme is regulated by sterol regulatory element-binding proteins (2). It was also shown that this enzyme is acetylated by protein acetyltransferases in cells (3, 4). SIRT1 deacetylates this enzyme at Lys661 resulting in its activation and the increase of fatty acid synthesis (3, 4).						
Background References		Ikeda, Y. et al. (2001) 2. Luong, A. et al. (2000) 3. Hallows, W.C. et al. (4. Schwer, B. and Verdi)) J Biol Chem 27 2006) Proc Natl /	75, 26458-66. Acad Sci U S A 103, 102	230-5.			
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot 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 Key		WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key		 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						
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