Store at -20C

194

SCD1 (C12H5) Rabbit mAb



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Applications: W, IP, IHC-P, IF-F, IF- IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #O00767	Entrez-Gene Id: 6319	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:50 1:100 - 1:400 1:100 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.					
		For a carrier free (BSA and azide free) version of this product see product #38672.					
Specificity/Sensitivity		SCD1 (C12H5) Rabbit mAb detects endogenous levels of total SCD1 protein. Species cross-reactivity for IHC-P is mouse only.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu35 of mouse SCD1.					
Background		Stearoyl-CoA desatura: catalyzes the conversio (18:1) (1-3). Palmitolea phospholipids, and cho reduced body fat (1). D and results in increase glucose (4). Furthermo insulin resistance in th	se 1 (SCD1) is a key on of palmitoyl–Co. te and oleate are tl olesterol esters (1). visruption of SCD1 d translocation of ore, SCD1 is essenti e liver (5).	v lipogenic enzyme found A and stearoyl–CoA to pa he major components of SCD1-knockout mice sh in mouse brown adipose Glut4 to the plasma mer ial for the onset of diet-ir	d in the endoplasm almitoleoyl–CoA (16 f triglycerides, mem ow improved insuli e tissue strengthens nbrane and enhanc nduced body weigh	ic reticulum that :1) and oleoyl–CoA abrane n sensitivity and s insulin signaling red uptake of t gain (1) and	
Background References		1. Ntambi, J.M. et al. (2002) <i>Proc. Natl. Acad. Sci. USA</i> 99, 11482-114866. 2. Kato, H. et al. (2006) <i>J. Cell. Sci.</i> 119, 2342-2353. 3. Ozols, J. (1997) <i>Mol. Biol. Cell</i> 8, 2281-2290. 4. Rahman, S.M. et al. (2005) <i>Am. J Physiol. Endocrinol. Metab.</i> 288, E381-387. 5. Gutiérrez-Juárez, R. et al. (2006) <i>J. Clin. Invest.</i> 116, 1686-1695.					
Species Reactiv	rity	Species reactivity is de	termined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity Key		H: Human M: Mouse					
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