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Patents

Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 280	Source/Isotype: Rabbit IgG	UniProt ID: #Q13085, #O00763	Entrez-Gene Id 31, 32	
Product Usage Information	Aı	pplication		Dilution			
	W	estern Blotting		1:1000			
	Im	munoprecipitation		1:50			
	Im	munohistochemistry	(Paraffin)	1:200 - 1:800			
	Im	munofluorescence (Immunocytochen	1:100 - 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	Foi	For a carrier free (BSA and azide free) version of this product see product #42801.					
Specificity / Sensi		,	, ,	9) (D7D11) Rabbit mA sphorylated at Ser79.	nAb recognizes endogenous levels of acetyl-		
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding residues surrounding Ser79 of human acetyl-CoA carboxylase protein.					
Background	enz prii tiss tiss	Acetyl-CoA carboxylase (ACC) catalyzes the carboxylation of acetyl-CoA to malonyl-CoA (1). It is the key enzyme in the biosynthesis and oxidation of fatty acids (1). In rodents, the 265 kDa ACC1 (ACC α) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACC β) is the main isoform in oxidative tissues (1,2). However, in humans, ACC2 is the predominant isoform in both lipogenic and oxidative tissues (1,2). Phosphorylation by AMPK at Ser79 or by PKA at Ser1200 inhibits the enzymatic activity of ACC (3). ACC is a potential target of anti-obesity drugs (4,5).					
Background Refer	2. k 3. k 4. <i>k</i>	 Castle, J.C. et al. (2009) PLoS One 4, e4369. Kreuz, S. et al. (2009) Diabetes Metab Res Rev 25, 577-86. Ha, J. et al. (1994) J Biol Chem 269, 22162-8. Abu-Elheiga, L. et al. (2001) Science 291, 2613-6. Levert, K.L. et al. (2002) J Biol Chem 277, 16347-50. 					

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 IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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