399 Store at -200

Malic Enzyme 2 Antibody



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 65	Source: Rabbit	UniProt ID: #P23368	Entrez-Gene Id: 4200	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
	Imr	nunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	vity Mali	Malic Enzyme 2 Antibody recognizes endogenous levels of total malic enzyme 2 protein.					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly450 of human malic enzyme 2 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	(1,2 shown NAI Rec	Cytosolic malic enzyme (ME1) catalyzes the conversion of malate and NADP+ to pyruvate and NADPH (1,2). NADPH is then used for fatty acid biosynthesis and lipogenesis (1,2). Cytosolic malic enzyme was shown to mediate high fat diet-induced adiposity (1). Mitochondrial malic enzyme (ME2) preferentially uses NAD+ to catalyze the conversion of malate to pyruvate with the concomitant generation of NADH (2). Recent studies have demonstrated that the tumor suppressor p53 regulates cell metabolism and proliferation by repressing the expression of both cytosolic malic enzyme and mitochondrial malic enzyme (3).					
Background Refere	2. P	l-Dwairi, A. et al. (20 ongratz, R.L. et al. (ang, P. et al. (2013)	2007) J Biol Chem	282, 200-7.			

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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