#4332 Store at -20C

ATP-Citrate Lyase Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 125	Source: Rabbit	UniProt ID: #P53396	Entrez-Gene Id: 47
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting			1:1000	
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 / Sens	sitivity ATF	ATP-Citrate Lyase Antibody detects endogenous levels of total ATP-citrate lyase.				
Source / Purifica	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human ATP-citrate lyase. Antibodies are purified by protein A and peptide affinity chromatography					
Background	(OA as v of A lyas	ATP-citrate lyase (ACL) is a homotetramer that catalyzes the formation of acetyl-CoA and oxaloacetate (OAA) in the cytosol, which is the key step for the biosynthesis of fatty acids, cholesterol and acetylcholine, as well as for glucogenesis (1). Nutrients and hormones regulate the expression level and phosphorylation of ATP-citrate lyase (1,2). It is phosphorylated by GSK-3 on Thr446 and Ser450 (3). Ser455 of ATP-citrate lyase has been reported to be phosphorylated by PKA and Akt (4,5). Phosphorylation on Ser455 abolishes the homotropic allosteric regulation by citrate and enhances the catalytic activity of the enzyme (2).				
Background Refe	2. P 3. H 4. P	. Towle, H.C. et al. (1997) <i>Annu Rev Nutr</i> 17, 405-33 Potapova, I.A. et al. (2000) <i>Biochemistry</i> 39, 1169-79 Hughes, K. et al. (1992) <i>Biochem J</i> 288 (Pt 1), 309-14 Pierce, M.W. et al. (1982) <i>J Biol Chem</i> 257, 10681-6 Berwick, D.C. et al. (2002) <i>J Biol Chem</i> 277, 33895-900.				

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

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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