#4331 Store at -20C

Phospho-ATP-Citrate Lyase (Ser455) Antibody



Orders: 877-616-CELL (2355)

orders@cell signal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 125	Source: Rabbit	UniProt ID: #P53396	Entrez-Gene Id 47	
Product Usage Information	Ap	Application		Dilution			
	We	estern Blotting			1:1000		
	Imi	munoprecipitation			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 / Sensitivity		Phospho-ATP-Citrate Lyase (Ser455) Antibody detects endogenous levels of ATP-citrate lyase only when phosphorylated at Ser455 (equivalent to Ser454 in rat).					
Species predicted t react based on 100 ^o sequence homolog	%						
Source / Purificatio	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser455 of human ATP-citrate lyase. Antibodies are purified by protein A and peptide affinity chromatography.					
(OAA) in the cytosol, which is the key step for the as well as for glucogenesis (1). Nutrients and ho of ATP-citrate lyase (1,2). It is phosphorylated by lyase has been reported to be phosphorylated by				that catalyzes the formation of acetyl-CoA and oxaloacetate or the biosynthesis of fatty acids, cholesterol and acetylcholine, d hormones regulate the expression level and phosphorylation and by GSK-3 on Thr446 and Ser450 (3). Ser455 of ATP-citrate and by PKA and Akt (4,5). Phosphorylation on Ser455 abolishes a and enhances the catalytic activity of the enzyme (2).			
Background Refere	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 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

Trademarks and Patents

 $\hbox{Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.} \\$

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited UsesExcept as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the

following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

Phospho-ATP-Citrate Lyase (Ser455) Antibody (#4331) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.