

#5557 Store at -20°C

Succinyl-CoA Synthetase Antibody



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	36	Rabbit	#P53597	8802

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Succinyl-CoA Synthetase Antibody detects endogenous levels of total succinyl-CoA synthetase (α subunit) protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human succinyl-CoA synthetase (α subunit) protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Succinyl-CoA synthetase α subunit (SUCLG1) catalyzes the conversion of succinate to succinyl-CoA and plays a key role in the citric acid cycle (1,2). Deficiency of this enzyme leads to a variety of diseases including fatal infantile lactic acidosis (3) and mitochondrial hepatoencephalomyopathy (4).	
Background References	<ol style="list-style-type: none"> 1. Johnson, J.D. et al. (1998) <i>J Biol Chem</i> 273, 27580-6. 2. Phillips, D. et al. (2009) <i>Biochemistry</i> 48, 7140-9. 3. Ostergaard, E. et al. (2007) <i>Am J Hum Genet</i> 81, 383-7. 4. Van Hove, J.L. et al. (2010) <i>Pediatr Res</i> 68, 159-64. 	

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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