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SUCLA2 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15138

Product Information

Application	WB
Primary Accession	Q9P2R7
Other Accession	NM_003850, NP_003841
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50317

Additional Information

Gene ID	8803
Alias Symbol	A-BETA, SCS-betaA, MTDPS5
Other Names	Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial, 6.2.1.5, ATP-specific succinyl-CoA synthetase subunit beta, Renal carcinoma antigen NY-REN-39, Succinyl-CoA synthetase beta-A chain, SCS-betaA, SUCLA2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SUCLA2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SUCLA2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

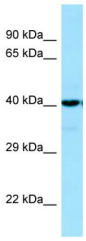
Name	SUCLA2 {ECO:0000255|HAMAP-Rule:MF_03220, ECO:0000303|PubMed:34492704}
Function	ATP-specific succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of ATP and thus represents the only step of substrate-level phosphorylation in the TCA (PubMed:15877282, PubMed:34492704, PubMed:40108300). The beta subunit provides nucleotide specificity of the enzyme and binds the substrate succinate, while the binding sites for coenzyme A and phosphate are found in the alpha subunit (By similarity). Also able to act as an ATP-specific itaconyl- and malyl- CoA synthetase (PubMed:40108300).

Cellular Location	Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03220, ECO:0000269|PubMed:15877282, ECO:0000269|PubMed:17287286, ECO:0000269|PubMed:25944712}
Tissue Location	Widely expressed. Not expressed in liver and lung.

References

Furuyama K.,et al.J. Clin. Invest. 105:757-764(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Johnson J.D.,et al.J. Biol. Chem. 273:27580-27586(1998).

Images



WB Suggested Anti-SUCLA2 Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.