

SUCLA2 (Phospho-Ser124) Antibody

Catalog No: #SAB657

Package Size: #SAB657 100ul

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Description

Product Name	SUCLA2 (Phospho-Ser124) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was purified from rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Applications	WB
Species Reactivity	Human;Mouse
Specificity	SUCLA2(Phospho-Ser124) Antibody detects endogenous levels of SUCLA2(only when phosphorylated at Ser124.
Immunogen Description	A synthesized peptide derived from human SUCLA2 around the phosphorylation site of Ser124.
Conjugates	Unconjugated
Other Names	SUCLA2,A-SCS,SCS-betaA
SDS-PAGE MW	50kDa
Concentration	1 mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide.
Storage	Store at --20°C/1 year

Application Details

Western Blot: 1/500 - 1/2000

Background

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). 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).

Published Papers

Dong Guo;Qiuqing Yu;Yingying Tong;Xu Qian;Ying Meng;Fei Ye;Xiaoming Jiang;Lihui Wu;Qingqing Yang;Suyao Li;Min Li;Qingang Wu;Liwei Xiao;Xuxiao He;Rongxuan Zhu;Guijun Liu;Dou Nie;Shudi Luo;Leina Ma;Ren-An Jin;Zhihua Liu;Xiao Liang;Dong Yan;Zhimin Lu et al., OXCT1 succinylation and activation by SUCLA2 promotes ketolysis and liver tumor growth., , (2025)

[PMID:39862868](https://pubmed.ncbi.nlm.nih.gov/39862868/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.