

SUCLA2 Antibody (Center) Blocking peptide Synthetic peptide Catalog # BP5328c

## Specification

## SUCLA2 Antibody (Center) Blocking peptide - Product Information

Primary Accession Other Accession <u>Q9P2R7</u> <u>NP 003841.1</u>

## SUCLA2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 8803

**Other Names** 

Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial, ATP-specific succinyl-CoA synthetase subunit beta, Renal carcinoma antigen NY-REN-39, Succinyl-CoA synthetase beta-A chain, SCS-betaA, SUCLA2

#### Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## SUCLA2 Antibody (Center) Blocking peptide - Protein Information

#### Name SUCLA2 {ECO:0000255|HAMAP-Rule:MF 03220}

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:<a

href="http://www.uniprot.org/citations/15877282" target="\_blank">15877282</a>). 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).

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.



# SUCLA2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

## Blocking Peptides

## SUCLA2 Antibody (Center) Blocking peptide - Images

## SUCLA2 Antibody (Center) Blocking peptide - Background

Succinyl-CoA synthetase (SCS) is a mitochondrial matrix enzyme that acts as a heterodimer, being composed of an invariant alpha subunit and a substrate-specific beta subunit. The protein encoded by this gene is an ATP-specific SCS beta subunit that dimerizes with the SCS alpha subunit to form SCS-A, an essential component of the tricarboxylic acid cycle. SCS-A hydrolyzes ATP to convert succinate to succinyl-CoA. Defects in this gene are a cause of myopathic mitochondrial DNA depletion syndrome. A pseudogene of this gene has been found on chromosome 6.

#### SUCLA2 Antibody (Center) Blocking peptide - References

Ostergaard, E., et al. Eur. J. Pediatr. 169(2):201-205(2010)Elpeleg, O., et al. Am. J. Hum. Genet. 76(6):1081-1086(2005)Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)