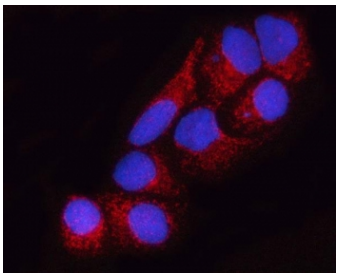
SUCLA2 Antibody / Succinyl-CoA synthetase beta-A chain (RQ7907)

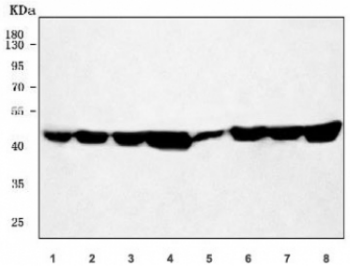
Catalog No.	Formulation	Size
RQ7907	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

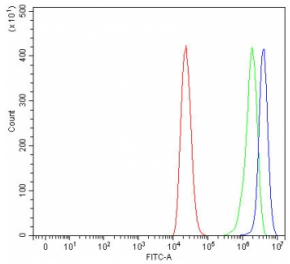
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9P2R7
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This SUCLA2 antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with SUCLA2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human Caco-2, 2) human 293T, 3) human MOLT4, 4) human HepG2, 5) rat lung, 6) rat brain, 7) mouse lung and 8) mouse brain tissue lysate with SUCLA2 antibody. Predicted molecular weight ~48 kDa.



Flow cytometry testing of human ThP-1 cells with SUCLA2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SUCLA2 antibody.

Description

Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial (SUCLA2), also known as ADP-forming succinyl-CoA synthetase (SCS-A), is an enzyme that in humans is encoded by the SUCLA2 gene on chromosome 13. 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.

Application Notes

Optimal dilution of the SUCLA2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids Q50-H454) was used as the immunogen for the SUCLA2 antibody.

Storage

After reconstitution, the SUCLA2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com