Datasheet for ABIN7601913

anti-SUCLA2 antibody (AA 50-454)

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Overview

Quantity:	100 µg
Target:	SUCLA2
Binding Specificity:	AA 50-454
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SUCLA2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SUCLA2 Antibody Picoband®
Immunogen:	E.coli-derived human SUCLA2 recombinant protein (Position: Q50-H454).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SUCLA2 Antibody Picoband® (ABIN7601913). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SUCLA2
Alternative Name:	SUCLA2 (SUCLA2 Products)
Background:	Synonyms: Mediator of RNA polymerase II transcription subunit 14, Activator-recruited cofactor 150 kDa component, ARC150, Cofactor required for Sp1 transcriptional activation subunit 2, CRSP complex subunit 2, Mediator complex subunit 14, RGR1 homolog, hRGR1, Thyroid hormone receptor-associated protein complex 170 kDa component, Trap170, Transcriptional coactivator CRSP150, Vitamin D3 receptor-interacting protein complex 150 kDa component, DRIP150, MED14, ARC150, CRSP2, CXorf4, DRIP150, EXLM1, RGR1, TRAP170, Tissue Specificity: Ubiquitous. Background: 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.
Molecular Weight:	48 kDa
Gene ID:	8803
UniProt:	Q9P2R7

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Carrozzo, R., Dionisi-Vici, C., Steuerwald, U., Lucioli, S., Deodato, F., Di Giandomenico, S., Bertini, E., Franke, B., Kluijtmans, L. A. J., Meschini, M. C., Rizzo, C., Piemonte, F., Rodenburg, R., Santer, R., Santorelli, F. M., van Rooij, A., Vermunt-de Koning, D., Morava, E., Wevers, R. A. SUCLA2 mutations are associated with mild methylmalonic aciduria, Leigh-like encephalomyopathy, dystonia, and deafness. Brain 130: 862-874, 2007. 2. Elpeleg, O., Miller, C., Hershkovitz, E., Bitner-Glindzicz, M., Bondi-Rubinstein, G., Rahman, S., Pagnamenta, A., Eshhar,

Application Details

	S., Saada, A. Deficiency of the ADP-forming succinyl-CoA synthase activity is associated with encephalomyopathy and mitochondrial DNA depletion. Am. J. Hum. Genet. 76: 1081-1086, 2005. 3. Gross, M. B. Personal Communication. Baltimore, Md. 5/29/2015.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.