

Rabbit SUCLA2 Polyclonal Antibody | anti-SUCLA2 antibody

Anti-SUCLA2 Antibody Picoband

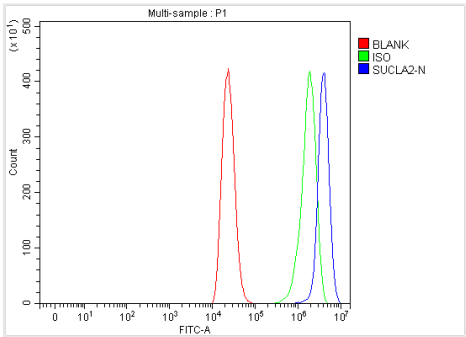
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127252	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SUCLA2; Polyclonal Antibody; Anti-SUCLA2 Antibody Picoband; mediator complex subunit 14 ; 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; CRSP2; CXorf4; EXLM1; RGR1; TRAP170; anti-SUCLA2 antibody

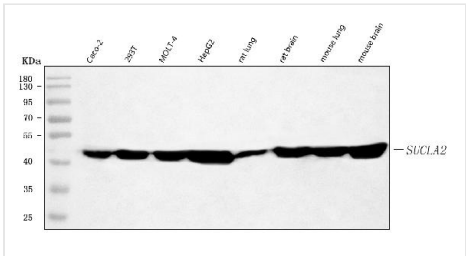
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-SUCLA2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SUCLA2 recombinant protein (Position: Q50-H454).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



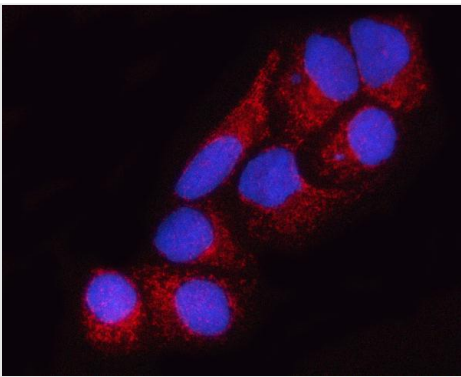
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-SUCLA2 antibody (AAA127252).Overlay histogram showing THP-1 cells stained with AAA127252 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SUCLA2 Antibody (AAA127252, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of SUCLA2 using anti-SUCLA2 antibody (AAA127252).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Caco-2 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human MOLT-4 whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat lung tissue lysates,Lane 6: rat brain tissue lysates,Lane 7: mouse lung tissue lysates,Lane 8: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SUCLA2 antigen affinity purified polyclonal antibody (#AAA127252) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SUCLA2 at approximately 48 kDa. The expected band size for SUCLA2 is at 48 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of SUCLA2 using anti-SUCLA2 antibody (AAA127252).SUCLA2 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SUCLA2 Antibody (AAA127252) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SUCLA2 antibody	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.
Product Categories/Family for anti-SUCLA2 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Mediator Complex; Transcription

References	1. Carrozzo, R., Dionisi-Vici, C., Steuerwald, U., Luciolli, 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, 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.
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321583
NCBI GeneID	8803
NCBI Accession #	NP_003841
NCBI GenBank Nucleotide #	NM_003850
UniProt Accession #	Q9P2R7; O95194; Q5T9Q4; Q5T9Q6; Q9NV21; Q9NVP7; B2RDE7
Molecular Weight	48,040 Da
NCBI Official Full Name	succinyl-CoA ligase
NCBI Official Synonym Full Names	succinate-CoA ligase, ADP-forming, beta subunit
NCBI Official Symbol	SUCLA2
NCBI Official Synonym Symbols	A-BETA; MTDPS5; SCS-betaA
NCBI Protein Information	succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial; succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial; ATP-specific succinyl-CoA synthetase subunit beta; ATP-specific succinyl-CoA synthetase, beta subunit; mitochondrial succinyl-CoA
UniProt Protein Name	Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial
UniProt Gene Name	SUCLA2
UniProt Synonym Gene Names	SCS-betaA
UniProt Entry Name	SUCB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.