

Rabbit anti-Human SUCLA2 Polyclonal Antibody | anti-SUCLA2 antibody

Anti-SUCLA2 Antibody, Rabbit Polyclonal

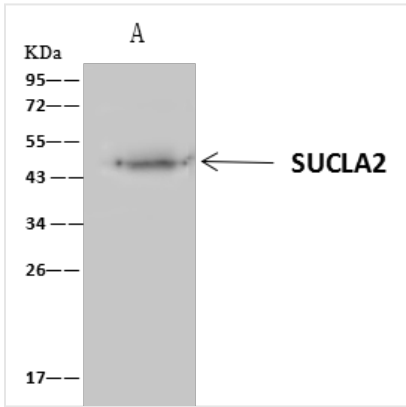
CATALOG # AAA256386	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

SUCLA2; Polyclonal Antibody; Anti-SUCLA2 Antibody; Rabbit Polyclonal; SUCLA2 Antibody; Rabbit PAb; Antigen Affinity Purified; succinate-CoA ligase; ADP-forming; beta subunit; Anti-A-BETA Antibody; Anti-A-SCS Antibody; Anti-MTDPS5 Antibody; Anti-SCS-betaA Antibody; anti-SUCLA2 antibody

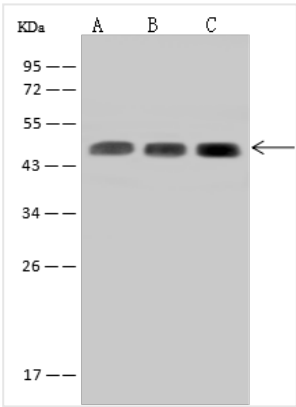
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SUCLA2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SUCLA2 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E Coli-derived Human SUCLA2 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human SUCLA2 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)

SUCLA2 was immunoprecipitated using: Lane A: 0.5 mg Mouse kidney Whole Cell Lysate 4 uL anti-SUCLA2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-SUCLA2 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 50 kDa. Observed band size: 50 kDa.



WB (Western Blot)

Anti-SUCLA2 rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate. Lane B: MOLT-4 Whole Cell Lysate. Lane C: U-251 MG Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 50 kDa. Observed band size: 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SUCLA2 antibody	SUCLA2 encodes the ATP-forming beta subunit (A-SUCL-beta) of succinyl-CoA ligase, an enzyme of the citric acid cycle. Sucla2 is located in the mitochondrial matrix and catalyzes the reversible synthesis of succinate and adenosine triphosphate (ATP) in the tricarboxylic acid cycle. Mutations in SUCLA2, encoding the beta-subunit of succinyl-CoA synthetase of the Krebs cycle, are one cause of mitochondrial DNA depletion syndrome. Mutations in SUCLA2 lead to a mitochondrial disorder manifesting as encephalomyopathy with dystonia, deafness, and lesions in the basal ganglia. Patients have been reported to have severe progressive childhood-onset encephalomyopathy, and methylmalonic aciduria, often leading to death in childhood. Sucla2 expression was found to be correlated with the capacitation of boar spermatozoa. The metabolic vulnerability in SUCLA2-deficient prostate cancer cells is pharmacologically targetable.
References	Matilainen S, et al. (2017) Mitochondrial encephalomyopathy and retinoblastoma explained by compound heterozygosity of sucla2 point mutation and 13q14 deletion. Eur J Hum Genet 25 (3): 393. Huang S, et al. (2016) Knockdown of sucla2 decreases the viability of mouse spermatocytes by inducing apoptosis through injury of the mitochondrial function of cells. Folia Histochem Cytobiol 54 (3): 134-142. Dobolyi A, et al. (2015) Exclusive neuronal expression of sucla2 in the human brain. Brain Struct Funct 220 (1): 135-151.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/sucla2-antibody-immunoprecipitation-western-blot-elisa/256386>