abcam

Product datasheet

Anti-SUCLA2 antibody [EPR14924] ab202582

Recombinant RabMAb

2 References 9 Images

Overview

Product name	Anti-SUCLA2 antibody [EPR14924]
Description	Rabbit monoclonal [EPR14924] to SUCLA2
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 293, HeLa, HepG2, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; mouse and rat brain, heart, kidney and spleen lysates. IHC-P: human cervix carcinoma, mouse cardiac muscle and rat pancreas tissues; ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14924

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab202582 in the following tested applications.

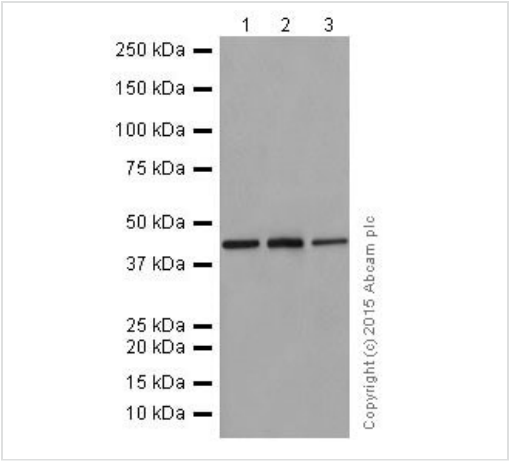
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/200.
ICC/IF		1/1800.
IHC-P		1/1800. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 43 kDa (predicted molecular weight: 50 kDa).

Target

Function	Catalyzes the ATP-dependent ligation of succinate and CoA to form succinyl-CoA.
Tissue specificity	Widely expressed. Not expressed in liver and lung.
Pathway	Carbohydrate metabolism; tricarboxylic acid cycle; succinate from succinyl-CoA (ligase route): step 1/1.
Involvement in disease	Mitochondrial DNA depletion syndrome 5
Sequence similarities	Belongs to the succinate/malate CoA ligase beta subunit family. Contains 1 ATP-grasp domain.
Cellular localization	Mitochondrion.

Images



Western blot - Anti-SUCLA2 antibody [EPR14924] (ab202582)

All lanes : Anti-SUCLA2 antibody [EPR14924] (ab202582) at 1/1000 dilution

Lane 1 : 293 (Human epithelial cells from embryonic kidney) whole cell lysate
Lane 2 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 3 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate

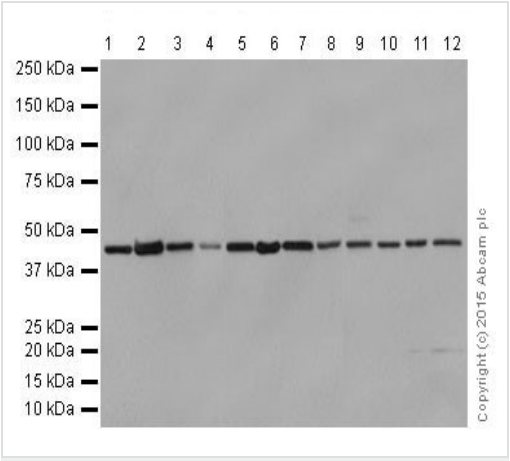
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 50 kDa
Observed band size: 43 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-SUCLA2 antibody [EPR14924] (ab202582)

All lanes : Anti-SUCLA2 antibody [EPR14924] (ab202582) at 1/1000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Mouse heart lysate
Lane 3 : Mouse kidney lysate
Lane 4 : Mouse spleen lysate
Lane 5 : Rat brain lysate
Lane 6 : Rat heart lysate
Lane 7 : Rat kidney lysate
Lane 8 : Rat spleen lysate
Lane 9 : C6 (Rat glial tumor cells) whole cell lysate
Lane 10 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 11 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 12 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

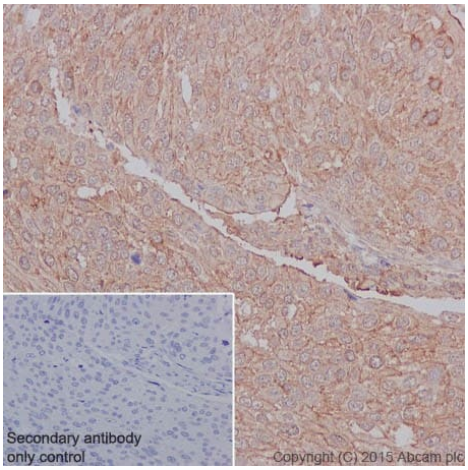
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 50 kDa
Observed band size: 43 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

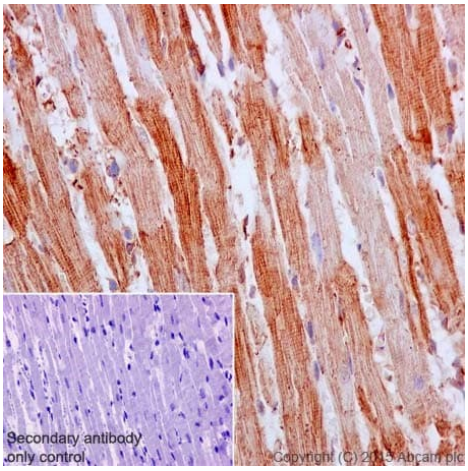


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUCLA2 antibody [EPR14924] (ab202582)

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling SUCLA2 with ab202582 at 1/1800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

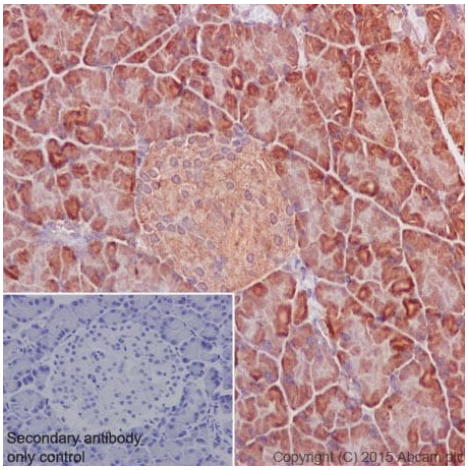


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUCLA2 antibody [EPR14924] (ab202582)

Immunohistochemical analysis of paraffin-embedded Mouse cardiac muscle tissue labeling SUCLA2 with ab202582 at 1/1800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on mouse cardiac muscle tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

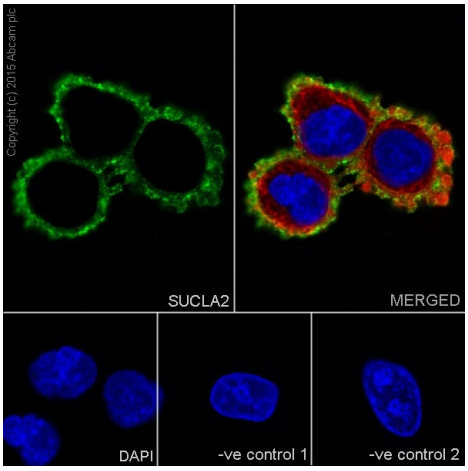


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUCLA2 antibody [EPR14924] (ab202582)

Immunohistochemical analysis of paraffin-embedded rat pancreas tissue labeling SUCLA2 with ab202582 at 1/1800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on rat pancreas tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

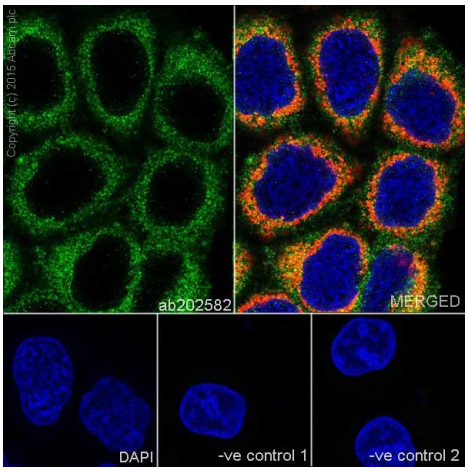
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-SUCLA2 antibody [EPR14924] (ab202582)

Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling SUCLA2 with ab202582 at 1/1800 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (Anti-Tubulin mouse MAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat Anti-Mouse secondary) at 1/500 dilution (red).

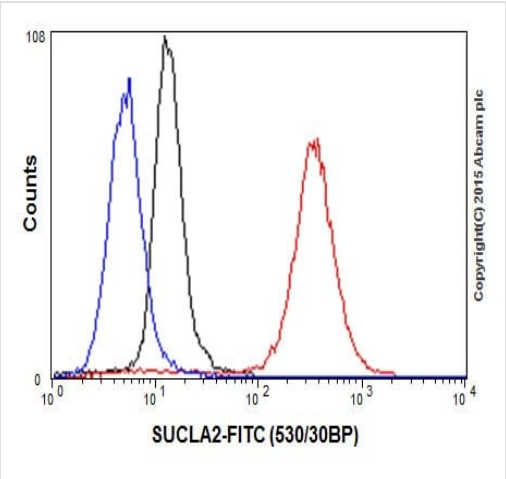
The negative controls are as follows:
-ve control 1: ab202582 at 1/1800 dilution followed by **ab150120** (AlexaFluor®594 Goat Anti-Mouse secondary) at 1/500 dilution.
-ve control 2: **ab7291** (Anti-Tubulin mouse MAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-SUCLA2 antibody [EPR14924] (ab202582)

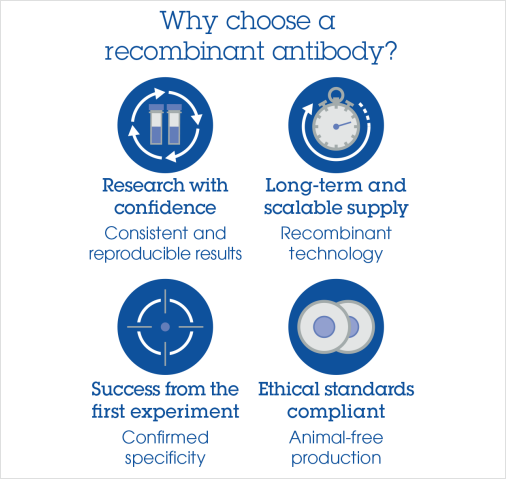
Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling SUCLA2 with ab202582 at 1/1800 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Confocal image showing cytoplasm staining on HeLa cell line. The nuclear counter stain is DAPI (blue). COX IV is detected with **ab33985** (anti-COX IV mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat Anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:
-ve control 1: ab202582 at 1/1800 dilution followed by **ab150120** (AlexaFluor®594 Goat Anti-Mouse secondary) at 1/500 dilution.
-ve control 2: **ab33985** (Anti-COX IV mouse MAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Flow Cytometry (Intracellular) - Anti-SUCLA2 antibody [EPR14924] (ab202582)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling SUCLA2 with ab202582 at 1/200 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Anti-SUCLA2 antibody [EPR14924] (ab202582)

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