

SLC25A4/ANT1 Rabbit pAb

Catalog NO.: A1882SP **KO Validated** **1 Publications**

Basic Information

Observed MW

33 kDa

Calculated MW

33 kDa

Category

Polyclonal Antibodies

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Background

This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external ophthalmoplegia and familial hypertrophic cardiomyopathy.

Recommended Dilutions

WB 1:500 - 1:1000

IP

0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells

IF/ICC 1:100 - 1:1000

IHC-P 1:3000 - 1:12000

ELISA

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥ 1:10000)

Contact

Immunogen Information

Gene ID	Swiss Prot
291	P12235

Immunogen

This information is considered to be commercially sensitive.

Synonyms

T1; ANT; AAC1; ANT1; PEO2; PEO3; ANT 1; PEOA2; MTDPS12; MTDPS12A

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

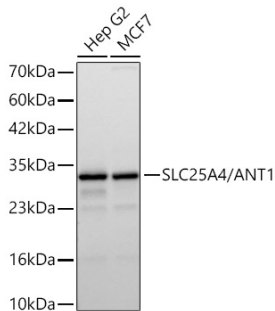
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



Western blot analysis of various lysates using [KO Validated] SLC25A4/ANT1 Rabbit pAb (A1882SP) at 1:1000 dilution incubated overnight at 4°C.

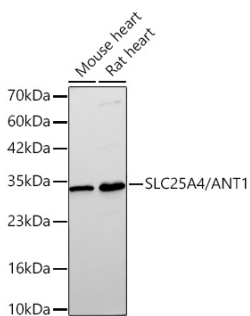
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10 s.



Western blot analysis of various lysates using [KO Validated] SLC25A4/ANT1 Rabbit pAb (A1882SP) at 1:1000 dilution incubated overnight at 4°C.

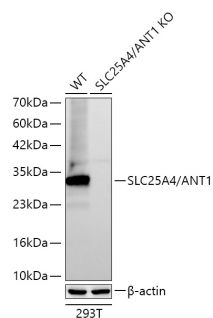
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

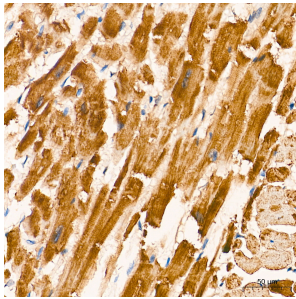
Detection: ECL Basic Kit (RM00020).

Exposure time: 10 s.

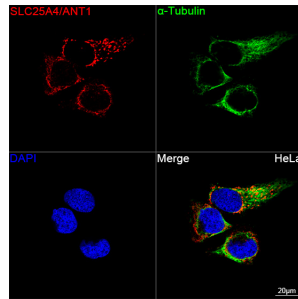


Western blot analysis of lysates from wild type (WT) and SLC25A4/ANT1 knockout (KO) 293T cells using [KO Validated] SLC25A4/ANT1 Rabbit pAb (A1882SP) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45 s.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human heart tissue using [KO Validated] SLC25A4/ANT1 Rabbit pAb (A1882SP) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of HeLa cells using [KO Validated] SLC25A4/ANT1 Rabbit pAb (A1882SP, dilution 1:100) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

