

# ANT3 (2A9): sc-293434

## BACKGROUND

ANT3 (adenine nucleotide translocator 2), also known as SLC25A6 (solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6), ADP/ATP translocase 3, AAC3 (ADP/ATP carrier protein 3) or ANT3Y, is a 298 amino acid mitochondrial protein that likely participates in the formation of the permeability transition pore complex (PTPC), a structure that is important for the regulation of apoptosis. A member of the mitochondrial carrier family, ANT3 catalyzes ADP/ATP exchange across the mitochondrial inner membrane and interacts with both VPRBP (HIV-1 Vpr) and influenza A virus PB1-F2. ANT3 contains three solcar repeats and is encoded by a gene located on pseudoautosomal region 1 (PAR1) of X and Y chromosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC25A6 (human) mapping to Xp22.33/Yp11.32.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## SOURCE

ANT3 (2A9) is a mouse monoclonal antibody raised against amino acids 135-209 representing partial length ANT3 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>3</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

ANT3 (2A9) is recommended for detection of ANT3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

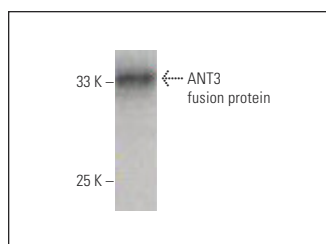
Suitable for use as control antibody for ANT3 siRNA (h): sc-91585, ANT3 shRNA Plasmid (h): sc-91585-SH and ANT3 shRNA (h) Lentiviral Particles: sc-91585-V.

Molecular Weight of ANT3: 33 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



ANT3 (2A9): sc-293434. Western blot analysis of human recombinant ANT3 fusion protein.

## SELECT PRODUCT CITATIONS

- Torres, A.K., Jara, C., Llanquino, J., Lira, M., Cortés-Díaz, D. and Tapia-Rojas, C. 2023. Mitochondrial bioenergetics, redox balance, and calcium homeostasis dysfunction with defective ultrastructure and quality control in the hippocampus of aged female C57BL/6J mice. *Int. J. Mol. Sci.* 24: 5476.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.