SANTA CRUZ BIOTECHNOLOGY, INC.

NHE-9 (K-23): sc-133818

BACKGROUND

NHE-9 (Na^+/H^+ exchanger 9), also known as SLC9A9 (solute carrier family 9 (sodium/hydrogen exchanger), member 9), is a 645 amino acid multi-pass membrane protein that localizes to late endosomes and belongs to the monovalent cation/proton antiporter family of ion transporters. Expressed ubiquitously with highest levels present in heart and skeletal muscle and lower levels present in liver, placenta and kidney, NHE-9 is thought to play a role in the electroneutral exchange of sodium ions for proteins across membrane and, via this activity, is involved in the maintenance of organelle ion homeostasis. Chromosomal aberrations in the NHE-9 gene are associated with the pathogenesis of early-onset behavioral/developmental disorder with features of attention deficit-hyperactivity disorder and intellectual disability (ADHD).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC9A9 (human) mapping to 3q24; Slc9a9 (mouse) mapping to 9 E3.3.

STORAGE

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

SOURCE

NHE-9 (K-23) is an affinity purified rabbit polyclonal antibody raised against synthetic NHE-9 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

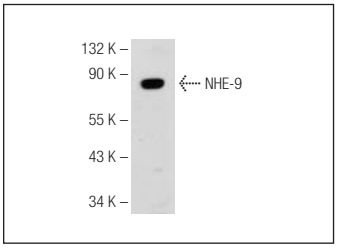
NHE-9 (K-23) is recommended for detection of NHE-9 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NHE-9 siRNA (h): sc-77892, NHE-9 siRNA (m): sc-149958, NHE-9 shRNA Plasmid (h): sc-77892-SH, NHE-9 shRNA Plasmid (m): sc-149958-SH, NHE-9 shRNA (h) Lentiviral Particles: sc-77892-V and NHE-9 shRNA (m) Lentiviral Particles: sc-149958-V.

Molecular Weight of NHE-9: 73 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

DATA



NHE-9 (K-23): sc-133818. Western blot analysis of NHE-9 expression in Hep G2 whole cell lysate.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.