

ATP9B (E-20): sc-84703

BACKGROUND

ATP9B (ATPase, class II, type 9B), also known as NEO1L, ATP11B or ATPASEP, is a 1,147 amino acid multi-pass membrane protein that belongs to the cation transport family of P-type ATPases. Existing as multiple alternatively spliced isoforms, ATP9B functions to catalyze the decomposition of ATP to ADP and phosphate, a reaction that is H₂O-dependent and drives the transport of phospholipids across the membrane. The gene encoding ATP9B maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATP9B (human) mapping to 18q23; Atp9b (mouse) mapping to 18 E3.

SOURCE

ATP9B (E-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of ATP9B of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84703 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ATP9B (E-20) is recommended for detection of ATP9B of mouse, rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ATP family members.

ATP9B (E-20) is also recommended for detection of ATP9B in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for ATP9B siRNA (h): sc-72590, ATP9B siRNA (m): sc-141369, ATP9B shRNA Plasmid (h): sc-72590-SH, ATP9B shRNA Plasmid (m): sc-141369-SH, ATP9B shRNA (h) Lentiviral Particles: sc-72590-V and ATP9B shRNA (m) Lentiviral Particles: sc-141369-V.

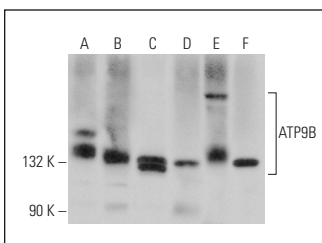
Molecular Weight of ATP9B: 129 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, RAW 264.7 whole cell lysate: sc-2211 or Jurkat whole cell lysate: sc-2204.

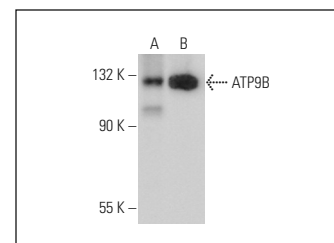
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ATP9B (E-20): sc-84703. Western blot analysis of ATP9B expression in Jurkat (A), K-562 (B) and NIH/3T3 (C) whole cell lysates and mouse brain (D), mouse placenta (E) and mouse testis (F) tissue extracts.



ATP9B (E-20): sc-84703. Western blot analysis of ATP9B expression in RAW 264.7 (A) and PC-12 (B) whole cell lysates.

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.