



## ATP9B (G-18): sc-84704

### BACKGROUND

ATP9B (ATPase, class II, type 9B), also known as NEO1L, ATP1IB 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 H<sub>2</sub>O-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 (G-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of ATP9B of human origin.

### STORAGE

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

### 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-84704 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

ATP9B (G-18) 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), 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.

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.

### 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) 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.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.