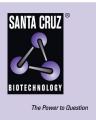
## SANTA CRUZ BIOTECHNOLOGY, INC.

# ATP10B (G-17): sc-249984



BACKGROUND

ATP10B (ATPase, class V, type 10B), also known as ATPVB or probable phospholipid-transporting ATPase VB, is a 1,461 amino acid multi-pass membrane protein that belongs to the cation transport ATPase (P-type) family and the type IV subfamily. Encoded by a gene that maps to human chromosome 5q34, ATP10B functions as a transport protein that is conserved in canine, mouse, rat, chicken, zebrafish, *Schizosaccharomyces pombe, Arabidopsis thaliana* and rice. ATP10B exists as three alternatively spliced isoforms and is expressed in brain and testis. Functioning as a tumor marker, ATP10B is highly expressed in lung adenocarcinoma and peripheral blood cells. Increased expression of maternally expressed ATP10B may be linked to Prader-Willi-Angelman syndrome and allelic loss on chromosome 5q34 may be involved in the development of hepatocellular carcinoma.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ATP10B (human) mapping to 5q34; Atp10b (mouse) mapping to 11 A5.

## SOURCE

ATP10B (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of ATP10B of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249984 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ATP10B (G-17) is recommended for detection of ATP10B 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 ATP10A or ATP10D.

ATP10B (G-17) is also recommended for detection of ATP10B in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ATP10B siRNA (h): sc-91676, ATP10B siRNA (m): sc-141333, ATP10B shRNA Plasmid (h): sc-91676-SH, ATP10B shRNA Plasmid (m): sc-141333-SH, ATP10B shRNA (h) Lentiviral Particles: sc-91676-V and ATP10B shRNA (m) Lentiviral Particles: sc-141333-V.

Molecular Weight of ATP10B isoforms a/b/c: 165/61/57 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **STORAGE**

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

## **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.