

TM9SF2 (N-15): sc-84635

BACKGROUND

TM9SF2 (transmembrane 9 superfamily member 2), also known as p76, is a 663 amino acid endosomal multi-pass membrane protein that is ubiquitously expressed, with high expression in pancreas and kidney, and lower levels in lung, liver, skeletal muscle, placenta, brain and heart. A member of the non-spanin (TM9SF) family, TM9SF2 is thought to act as an endosome ion channel or small molecule transporter in intracellular compartments, and colocalizes with both transferrin receptors and various mannose 6-phosphate receptors. The gene encoding TM9SF2 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TM9SF2 (human) mapping to 13q32.3; Tm9sf2 (mouse) mapping to 14 E5.

SOURCE

TM9SF2 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of TM9SF2 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-84635 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

TM9SF2 (N-15) is recommended for detection of TM9SF2 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).

Suitable for use as control antibody for TM9SF2 siRNA (h): sc-76676, TM9SF2 siRNA (m): sc-154311, TM9SF2 shRNA Plasmid (h): sc-76676-SH, TM9SF2 shRNA Plasmid (m): sc-154311-SH, TM9SF2 shRNA (h) Lentiviral Particles: sc-76676-V and TM9SF2 shRNA (m) Lentiviral Particles: sc-154311-V.

Molecular Weight of TM9SF2: 76 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 or our catalog for detailed protocols and support products.