

TM7SF3 (E-15): sc-169603

BACKGROUND

TM7SF3 (transmembrane 7 superfamily member 3) is a 570 amino acid multi-pass membrane protein that is expressed ubiquitously, with highest expression in kidney tissue, and is thought to play a role in the transduction of external signals to the intercellular environment. The gene encoding TM7SF3 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TM7SF3 (human) mapping to 12p11.23; Tm7sf3 (mouse) mapping to 6 G3.

SOURCE

TM7SF3 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TM7SF3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-169603 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

TM7SF3 (E-15) is recommended for detection of TM7SF3 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 TM7SF2.

TM7SF3 (E-15) is also recommended for detection of TM7SF3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TM7SF3 siRNA (h): sc-96088, TM7SF3 siRNA (m): sc-154309, TM7SF3 shRNA Plasmid (h): sc-96088-SH, TM7SF3 shRNA Plasmid (m): sc-154309-SH, TM7SF3 shRNA (h) Lentiviral Particles: sc-96088-V and TM7SF3 shRNA (m) Lentiviral Particles: sc-154309-V.

Molecular Weight of TM7SF3: 64 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) Immunofluorescence: 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.

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.