SANTA CRUZ BIOTECHNOLOGY, INC.

TM6SF1 (S-14): sc-165716

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TM6SF1 (transmembrane 6 superfamily member 1) is a 370 amino acid multi-pass membrane protein that belongs to the TM6SF family. TM6SF1 has enhanced expression in spleen, testis and peripheral blood leukocytes. The gene that encodes TM6SF1 consists of nearly 30,000 bases and maps to human chromosome 15q25.2. Housing approximately 106 million base pairs and encoding more than 700 genes, chromosome 15 makes up about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TM6SF1 (human) mapping to 15q25.2; Tm6sf1 (mouse) mapping to 7 D3.

SOURCE

TM6SF1 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TM6SF1 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-165716 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TM6SF1 (S-14) is recommended for detection of TM6SF1 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 TM6SF2.

TM6SF1 (S-14) is also recommended for detection of TM6SF1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TM6SF1 siRNA (h): sc-90154, TM6SF1 siRNA (m): sc-154306, TM6SF1 shRNA Plasmid (h): sc-90154-SH, TM6SF1 shRNA Plasmid (m): sc-154306-SH, TM6SF1 shRNA (h) Lentiviral Particles: sc-90154-V and TM6SF1 shRNA (m) Lentiviral Particles: sc-154306-V.

Molecular Weight of TM6SF1: 42 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.

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.