SANTA CRUZ BIOTECHNOLOGY, INC.

TMC6 (S-13): sc-109451

BACKGROUND

TMC6 (transmembrane channel-like 6), also known as EVER1, EVIN1, EV1 or LAK-4P, is an 805 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum and belongs to the transmembrane channel family. Expressed in testis, placenta and prostate, TMC6 exists as multiple alternatively spliced isoforms and, when defective, is associated with the pathogenesis of epidermodysplasia verruciformis (EV). EV is an autosomal recessive dermatosis that is characterized by an increased susceptibility to human papillomaviruses (HPVs) and an increased rate of squamous cell carcinoma in UV-exposed skin. The gene encoding TMC6 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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5. Tate, G., Suzuki, T., Kishimoto, K. and Mitsuya, T. 2004. Novel mutations of EVER1/TMC6 gene in a Japanese patient with epidermodysplasia verruciformis. J. Hum. Genet. 49: 223-225.
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CHROMOSOMAL LOCATION

Genetic locus: TMC6 (human) mapping to 17q25.3; Tmc6 (mouse) mapping to 11 E2.

SOURCE

TMC6 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of TMC6 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-109451 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TMC6 (S-13) is recommended for detection of TMC6 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).

TMC6 (S-13) is also recommended for detection of TMC6 in additional species, including canine.

Suitable for use as control antibody for TMC6 siRNA (h): sc-94180, TMC6 siRNA (m): sc-154318, TMC6 shRNA Plasmid (h): sc-94180-SH, TMC6 shRNA Plasmid (m): sc-154318-SH, TMC6 shRNA (h) Lentiviral Particles: sc-94180-V and TMC6 shRNA (m) Lentiviral Particles: sc-154318-V.

Molecular Weight (predicted) of TMC6 isoforms: 90/50/43/32 kDa.

Molecular Weight (observed) of TMC6 isoforms: 90/100 kDa.

Positive Controls: F9 cell lysate: sc-2245 or mouse liver extract: sc-2256.

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.