SANTA CRUZ BIOTECHNOLOGY, INC.

TSTD2 (T-12): sc-241330

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The Power to Question

BACKGROUND

TSTD2 (thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 2), also known as C6orf97, is a 516 amino acid protein that contains one rhodanese domain. TSTD2 is post-translationally phosphorylated at serine 269, 464, 468 and 474. Existing as two alternatively spliced isforms, the gene encoding TSTD2 maps to human chromosome 9. Chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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4. Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (rendu-osler disease). Respiration 74: 361-378.
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7. Gold-von Simson, G., et al. 2009. Kinetin in familial dysautonomia carriers: implications for a new therapeutic strategy targeting mRNA splicing. Pediatr. Res. 65: 341-346.
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CHROMOSOMAL LOCATION

Genetic locus: TSTD2 (human) mapping to 9q22.33; Tstd2 (mouse) mapping to 4 B1.

SOURCE

TSTD2 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TSTD2 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-241330 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TSTD2 (T-12) is recommended for detection of TSTD2 of mouse and human origin, and RGD1310893 of rat 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 TSTD1 family members.

TSTD2 (T-12) is also recommended for detection of TSTD2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TSTD2 siRNA (h): sc-92785, TSTD2 siRNA (m): sc-141637, TSTD2 shRNA Plasmid (h): sc-92785-SH, TSTD2 shRNA Plasmid (m): sc-141637-SH, TSTD2 shRNA (h) Lentiviral Particles: sc-92785-V and TSTD2 shRNA (m) Lentiviral Particles: sc-141637-V.

Molecular Weight of TSTD2 isoforms: 58/19 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.