

THSD7B (T-20): sc-248815

BACKGROUND

THSD7B (thrombospondin type-1 domain-containing protein 7B) is a 1,608 amino acid single-pass type I membrane protein that contains 17 TSP type-1 domains. The gene that encodes THSD7B contains approximately 912,173 bases and maps to human chromosome 2q22.1. Consisting of about 237 million bases and encoding over 1,400 genes, chromosome 2 makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is due to mutations in the ALMS1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: THSD7B (human) mapping to 2q22.1; Thsd7b (mouse) mapping to 1 E4.

SOURCE

THSD7B (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of THSD7B 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-248815 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

THSD7B (T-20) is recommended for detection of THSD7B 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 THSD7A.

THSD7B (T-20) is also recommended for detection of THSD7B in additional species, including equine, canine and porcine.

Suitable for use as control antibody for THSD7B siRNA (h): sc-94278, THSD7B siRNA (m): sc-154260, THSD7B shRNA Plasmid (h): sc-94278-SH, THSD7B shRNA Plasmid (m): sc-154260-SH, THSD7B shRNA (h) Lentiviral Particles: sc-94278-V and THSD7B shRNA (m) Lentiviral Particles: sc-154260-V.

Molecular Weight of THSD7B: 179 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.