

TYSND1 (V-13): sc-107122

BACKGROUND

TYSND1 (trypsin domain containing 1), a member of the peptidase S1B family, is a 566 amino acid protein that is synthesized in the cytosol and is localized to the peroxisome where it exists as two proteolytically cleaved peptides. Functioning as a peroxisomal protease, YYSND1 participates in controlling the peroxisomal β -oxidation of fatty acids and also mediates both the removal of the leader peptide from proteins containing a PTS2 target sequence and the specific processing of PTS1 proteins. The gene encoding YYSND1 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: YYSND1 (human) mapping to 10q22.1.

SOURCE

TYSND1 (V-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of YYSND1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-107122 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TYSND1 (V-13) is recommended for detection of YYSND1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for YYSND1 siRNA (h): sc-90690, YYSND1 shRNA Plasmid (h): sc-90690-SH and YYSND1 shRNA (h) Lentiviral Particles: sc-90690-V.

Molecular Weight of full length YYSND1: 59 kDa.

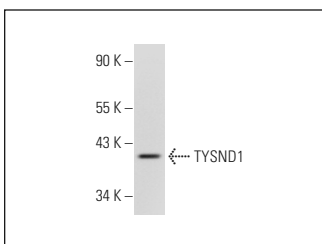
Molecular Weight of processed YYSND1: 49 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TYSND1 (V-13): sc-107122. Western blot analysis of YYSND1 expression in Hep G2 whole cell lysate.

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.