

TBC1D25 (N-13): sc-169527

BACKGROUND

TBC1D25 (TBC1 domain family member 25), also known as OATL1, is a 688 amino acid protein that exists as 2 alternatively spliced isoforms. Containing one Rab-GAP TBC domain, TBC1D25 may act as a GTPase-activating protein for Rab family proteins. The gene that encodes TBC1D25 contains 23,153 bases and maps to human chromosome Xp11.23. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of a X and Y chromosome lead to normal male development while two copies of X lead to normal female development. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited, including Turner's syndrome, Klinefelter's syndrome and Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBC1D25 (human) mapping to Xp11.23; Tbc1d25 (mouse) mapping to X A1.1.

SOURCE

TBC1D25 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TBC1D25 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-169527 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBC1D25 (N-13) is recommended for detection of TBC1D25 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 other TBC1D family members.

TBC1D25 (N-13) is also recommended for detection of TBC1D25 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TBC1D25 siRNA (h): sc-91082, TBC1D25 siRNA (m): sc-154104, TBC1D25 shRNA Plasmid (h): sc-91082-SH, TBC1D25 shRNA Plasmid (m): sc-154104-SH, TBC1D25 shRNA (h) Lentiviral Particles: sc-91082-V and TBC1D25 shRNA (m) Lentiviral Particles: sc-154104-V.

Molecular Weight of TBC1D25: 76 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.