

TBC1D10B (G-13): sc-132112

BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. TBC1D10B (TBC1 domain family member 10B), also known as FP2461, is a 533 amino acid protein that contains one Rab-GAP TBC domain, a highly conserved 200 amino acid motif that conveys the catalytic activity of GTPase-activating proteins. Via its Rab-GAP domain, TBC1D10B is thought to function as a GTPase-activating protein that may regulate the activity of target Rab proteins. TBC1D10B exists as two alternatively spliced isoforms which are encoded by a gene that is located on chromosome 16.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBC1D10B (human) mapping to 16p11.2; Tbc1d10b (mouse) mapping to 7 F3.

SOURCE

TBC1D10B (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TBC1D10B 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-132112 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

TBC1D10B (G-13) is recommended for detection of TBC1D10B isoforms 1 and 2 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.

TBC1D10B (G-13) is also recommended for detection of TBC1D10B isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TBC1D10B siRNA (h): sc-93097, TBC1D10B siRNA (m): sc-154088, TBC1D10B shRNA Plasmid (h): sc-93097-SH, TBC1D10B shRNA Plasmid (m): sc-154088-SH, TBC1D10B shRNA (h) Lentiviral Particles: sc-93097-V and TBC1D10B shRNA (m) Lentiviral Particles: sc-154088-V.

Molecular Weight of TBC1D10B: 61 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) 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.