

TBC1D10C (H-113): sc-135418

BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. TBC1D10C (TBC1 domain family, member 10C), also known as carabin, is a 446 amino acid protein that contains one Rab-GAP TBC domain. Expressed at high levels in spleen and peripheral blood leukocytes, TBC1D10C functions as a Ras GTPase-activating protein that interacts with and acts as a negative feedback inhibitor of PP2B proteins, thereby mediating crosstalk between Ras and PP2Bs. The gene encoding TBC1D10C maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBC1D10C (human) mapping to 11q13.2; Tbc1d10c (mouse) mapping to 19 A.

SOURCE

TBC1D10C (H-113) is a rabbit polyclonal antibody raised against amino acids 26-138 mapping near the N-terminus of TBC1D10C of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

TBC1D10C (H-113) is recommended for detection of TBC1D10C of human and, to a lesser extent, mouse and rat 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); non cross-reactive with TBC1D10B.

TBC1D10C (H-113) is also recommended for detection of TBC1D10C in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TBC1D10C siRNA (h): sc-96665, TBC1D10C siRNA (m): sc-154089, TBC1D10C shRNA Plasmid (h): sc-96665-SH, TBC1D10C shRNA Plasmid (m): sc-154089-SH, TBC1D10C shRNA (h) Lentiviral Particles: sc-96665-V and TBC1D10C shRNA (m) Lentiviral Particles: sc-154089-V.

Molecular Weight of TBC1D10C: 50 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.


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Try **TBC1D10C (G-5): sc-393379** or **TBC1D10C (C-8): sc-393642**, our highly recommended monoclonal alternatives to TBC1D10C (H-113).