

TBRG1 (C-18): sc-162291

BACKGROUND

TBRG1 (transforming growth factor β regulator 1), also known as TB-5 or NIAM, is a 411 amino acid protein that localizes to the nucleus and contains one FY-rich C-terminal domain and one FY-rich N-terminal domain. Expressed in a variety of tissues, including liver, lung and pancreas, TBRG1 functions as a growth inhibitor that interacts with p14 ARF and MDM2 and is involved in maintaining chromosome stability. Additionally, TBRG1 can activate p53 function, thereby causing cell-cycle arrest and effectively restricting cell proliferation. TBRG1 expression is downregulated in breast, pancreas and kidney tumors, suggesting that TBRG1 participates in tumor suppression. TBRG1 exists as multiple alternatively spliced isoforms and is subject to MDM2-mediated ubiquitination and subsequent proteasomal degradation.

CHROMOSOMAL LOCATION

Genetic locus: TBRG1 (human) mapping to 11q24.2; Tbrg1 (mouse) mapping to 9 A4.

SOURCE

TBRG1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TBRG1 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-162291 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TBRG1 (C-18) is recommended for detection of TBRG1 of mouse, rat and 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); non cross-reactive with TBRG4.

TBRG1 (C-18) is also recommended for detection of TBRG1 in additional species, including equine.

Suitable for use as control antibody for TBRG1 siRNA (h): sc-96858, TBRG1 siRNA (m): sc-154124, TBRG1 shRNA Plasmid (h): sc-96858-SH, TBRG1 shRNA Plasmid (m): sc-154124-SH, TBRG1 shRNA (h) Lentiviral Particles: sc-96858-V and TBRG1 shRNA (m) Lentiviral Particles: sc-154124-V.

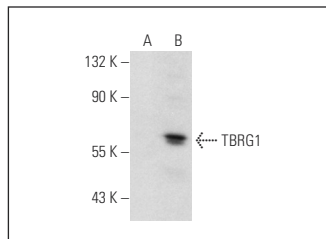
Molecular Weight of TBRG1: 50 kDa.

Positive Controls: TBRG1 (m2): 293T Lysate: sc-123942, Hep G2 cell lysate: sc-2227 or MIA PaCa-2 cell lysate: sc-2285.

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



TBRG1 (C-18): sc-162291. Western blot analysis of TBRG1 expression in non-transfected: sc-117752 (A) and mouse TBRG1 transfected: sc-123942 (B) 293T whole cell lysates.

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.


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Try **TBRG1 (D-9): sc-515620**, our highly recommended monoclonal alternative to TBRG1 (C-18).