

TRIM49 (G-13): sc-109102

BACKGROUND

TRIM49 (tripartite motif-containing protein 49), also known as RNF18 (RING finger protein 18), is a 452 amino acid protein that belongs to the TRIM/RBCC family (C3HC4 subfamily) and is preferentially expressed in testis. TRIM49 contains one B box-type zinc finger, one SPRY domain and one RING-type zinc finger, a motif that has zinc-chelating activity and is involved in mediating protein-protein and protein-DNA interactions. As a member of the TRIM/RBCC family, TRIM49 may function in transcriptional regulation, cell transformation and carcinogenesis.

REFERENCES

1. Yoshikawa, T., Seki, N., Azuma, T., Masuho, Y., Muramatsu, M., Miyajima, N. and Saito, T. 2000. Isolation of a cDNA for a novel human RING finger protein gene, RNF18, by the virtual transcribed sequence (VTS) approach. *Biochim. Biophys. Acta* 1493: 349-355.
2. Bates, B., Xie, Y., Taylor, N., Johnson, J., Wu, L., Kwak, S., Blatcher, M., Gulukota, K. and Paulsen, J.E. 2002. Characterization of mGluR5R, a novel, metabotropic glutamate receptor 5-related gene. *Brain Res. Mol. Brain Res.* 109: 18-33.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606124. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Thélie, A., Papillier, P., Penetier, S., Perreau, C., Traverso, J.M., Uzbekova, S., Mermillod, P., Joly, C., Humblot, P. and Dalbiès-Tran, R. 2007. Differential regulation of abundance and deadenylation of maternal transcripts during bovine oocyte maturation *in vitro* and *in vivo*. *BMC Dev. Biol.* 7: 125.

CHROMOSOMAL LOCATION

Genetic locus: TRIM49 (human) mapping to 11q14.3.

SOURCE

TRIM49 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM49 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-109102 P, (100 µg 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.

PROTOCOLS

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

APPLICATIONS

TRIM49 (G-13) is recommended for detection of TRIM49, TRIM49L2 and TRIM49B of 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).

Suitable for use as control antibody for TRIM49 siRNA (h): sc-96532, TRIM49 shRNA Plasmid (h): sc-96532-SH and TRIM49 shRNA (h) Lentiviral Particles: sc-96532-V.

Molecular Weight of TRIM49: 53 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.

RESEARCH USE

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