

TRIM17 (G-23): sc-134118

BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM17 (tripartite motif-containing 17), also known as RBCC, terf or RNF16, is a 477 amino acid protein that contains one RING-type zinc finger, one SPRY domain and one B box-type zinc finger. Expressed nearly exclusively in testis, TRIM17 belongs to the TRIM family and, based on its functional domains, may play a role in transcriptional regulation events. The gene encoding TRIM17 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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2. Borden, K.L. and Freemont, P.S. 1996. The RING finger domain: a recent example of a sequence-structure family. *Curr. Opin. Struct. Biol.* 6: 395-401.
3. Ogawa, S., Goto, W., Orimo, A., Hosoi, T., Ouchi, Y., Muramatsu, M. and Inoue, S. 1998. Molecular cloning of a novel RING finger-B box-coiled coil (RBCC) protein, terf, expressed in the testis. *Biochem. Biophys. Res. Commun.* 251: 515-519.
4. Ogawa, S., Saito, T., Matsuda, Y., Seki, N., Hayashi, A., Orimo, A., Hosoi, T., Ouchi, Y., Muramatsu, M., Hori, T. and Inoue, S. 2000. Chromosome mapping of RNF16 and rnf16, human, mouse and rat genes coding for testis RING finger protein (terf), a member of the RING finger family. *Cytogenet. Cell Genet.* 89: 56-58.
5. Shyu, H.W., Hsu, S.H., Hsieh-Li, H.M. and Li, H. 2001. A novel member of the RBCC family, Trif, expressed specifically in the spermatids of mouse testis. *Mech. Dev.* 108: 213-216.

CHROMOSOMAL LOCATION

Genetic locus: TRIM17 (human) mapping to 1q42.13.

SOURCE

TRIM17 (G-23) is an affinity purified rabbit polyclonal antibody raised against synthetic TRIM17 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

TRIM17 (G-23) is recommended for detection of TRIM17 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 TRIM17 siRNA (h): sc-78810, TRIM17 shRNA Plasmid (h): sc-78810-SH and TRIM17 shRNA (h) Lentiviral Particles: sc-78810-V.

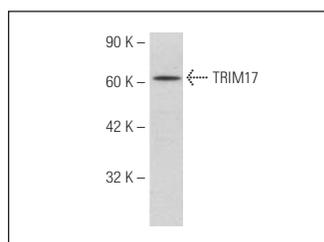
Molecular Weight of TRIM17: 54 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or human liver tissue.

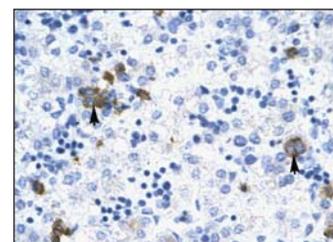
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



TRIM17 (G-23): sc-134118. Western blot analysis of TRIM17 expression in Jurkat whole cell lysate.



TRIM17 (G-23): sc-134118. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human liver tissue showing cytoplasmic localization.

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.