

# 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.

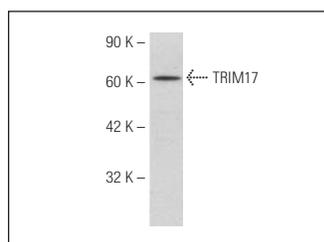
Molecular Weight of TRIM17: 54 kDa.

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

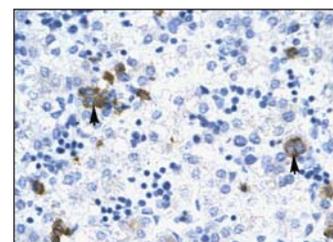
## RECOMMENDED SECONDARY REAGENTS

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](http://www.scbt.com) or our catalog for detailed protocols and support products.