

TRIM15 (G-21): sc-134116

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. TRIM15 (tripartite motif-containing 15), also known as RNF93, ZNFB7 or ZNF178, is a 465 amino acid cytoplasmic protein that contains one RING-type zinc finger, one B-box type zinc finger and one SPRY domain. One of several members of the TRIM family, TRIM15 exists as two alternatively spliced isoforms, known as α and β , which may play a role in transcriptional regulation events. The gene encoding TRIM15 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome.

REFERENCES

1. Harada, H., Harada, Y., O'Brien, D.P., Rice, D.S., Naeve, C.W. and Downing, J.R. 1999. HERF1, a novel hematopoiesis-specific RING-finger protein, is required for terminal differentiation of erythroid cells. *Mol. Cell. Biol.* 19: 3808-3815.
2. Reymond, A., Meroni, G., Fantozzi, A., Merla, G., Cairo, S., Luzi, L., Riganelli, D., Zanaria, E., Messali, S., Cainarca, S., Guffanti, A., Minucci, S., Pelicci, P.G. and Ballabio, A. 2001. The tripartite motif family identifies cell compartments. *EMBO J.* 20: 2140-2151.
3. Meroni, G. and Diez-Roux, G. 2005. TRIM/RBCC, a novel class of 'single protein RING finger' E3 ubiquitin ligases. *Bioessays* 27: 1147-1157.
4. Ando, A., Shigenari, A., Kulski, J.K., Renard, C., Chardon, P., Shiina, T. and Inoko, H. 2005. Genomic sequence analysis of the 238 kb swine segment with a cluster of TRIM and olfactory receptor genes located, but with no class I genes, at the distal end of the SLA class I region. *Immunogenetics* 57: 864-873.
5. Ozato, K., Shin, D.M., Chang, T.H. and Morse, H.C. 2008. TRIM family proteins and their emerging roles in innate immunity. *Nat. Rev. Immunol.* 8: 849-860.
6. Uchil, P.D., Quinlan, B.D., Chan, W.T., Luna, J.M. and Mothes, W. 2008. TRIM E3 ligases interfere with early and late stages of the retroviral life cycle. *PLoS Pathog.* 4: e16.

CHROMOSOMAL LOCATION

Genetic locus: TRIM15 (human) mapping to 6p21.33.

STORAGE

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

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.

SOURCE

TRIM15 (G-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic TRIM15 peptide of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

TRIM15 (G-21) is recommended for detection of TRIM15 of 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), 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 TRIM15 siRNA (h): sc-76738, TRIM15 shRNA Plasmid (h): sc-76738-SH and TRIM15 shRNA (h) Lentiviral Particles: sc-76738-V.

Molecular Weight of TRIM15: 52 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.