

TRIM15 (A-17): sc-79765

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, ZNF7 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 6p22.1; Trim15 (mouse) mapping to 17 B1.

SOURCE

TRIM15 (A-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM15 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-79765 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM15 (A-17) is recommended for detection of TRIM15 of mouse, rat and 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).

TRIM15 (A-17) is also recommended for detection of TRIM15 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TRIM15 siRNA (h): sc-76738, TRIM15 siRNA (m): sc-76739, TRIM15 shRNA Plasmid (h): sc-76738-SH, TRIM15 shRNA Plasmid (m): sc-76739-SH, TRIM15 shRNA (h) Lentiviral Particles: sc-76738-V and TRIM15 shRNA (m) Lentiviral Particles: sc-76739-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 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.

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.