SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM38 (E-17): sc-102142

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Tripartite motif-containing protein 38 (TRIM38), also known as RING finger protein 15 (RNF15) or zinc finger protein RoRet, is a 465 amino acid member of the TRIM family, also known as the RING-B-box coiled-coil (RBCC) family. Members of the RBCC family have an N-terminal RING finger, followed by one or two zinc-binding domains (B-box domains), a leucine coiled-coil region and a variable C-terminal domain. Found in all eukaryotes, members of the RBCC family typically function within a larger protein complex and possess ubiquitin-protein isopeptide ligase activity.

REFERENCES

1. The International FMF Consortium.1997. Ancient missense mutations in a new member of the RoRet gene family are likely to cause familial Mediterranean fever. Cell 90: 797-807.
2. Rhodes, D.A., Ihrke, G., Reinicke, A.T., Malcherek, G., Towey, M., Isenberg, D.A. and Trowsdale, J. 2002. The 52 000 MW Ro/SS-A autoantigen in Sjögren's syndrome/systemic lupus erythematosus (Ro52) is an interferon-γ inducible tripartite motif protein associated with membrane proximal structures. Immunology 106: 246-256.
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. Hennig, J., Ottosson, L., Andrεsen, C., Horvath, L., Kuchroo, V.K., Broo, K., Wahren-Herlenius, M. and Sunnerhagen, M. 2005. Structural organization and Zn^{2+}-dependent subdomain interactions involving autoantigenic epitopes in the RING-B-box-coiled-coil (RBCC) region of Ro52. J. Biol. Chem. 280: 33250-33261.
5. Short, K.M. and Cox, T.C. 2006. Subclassification of the RBCC/TRIM superfamily reveals a novel motif necessary for microtubule binding. J. Biol. Chem. 281: 8970-8980.
6. Massiah, M.A., Simmons, B.N., Short, K.M. and Cox, T.C. 2006. Solution structure of the RBCC/TRIM B-box1 domain of human MID1: B-box with a RING. J. Mol. Biol. 358: 532-545.

CHROMOSOMAL LOCATION

Genetic locus: TRIM38 (human) mapping to 6p22.2.

SOURCE

TRIM38 (E-17) is a purified rabbit polyclonal antibody raised against TRIM38 of human origin.

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.

PRODUCT

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

APPLICATIONS

TRIM38 (E-17) is recommended for detection of TRIM38 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM38 siRNA (h): sc-95352, TRIM38 shRNA Plasmid (h): sc-95352-SH and TRIM38 shRNA (h) Lentiviral Particles: sc-95352-V.

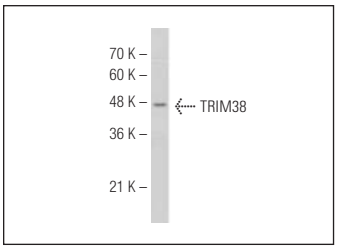
Molecular Weight of TRIM38: 53 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or Jurkat nuclear extract: sc-2132.

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).

DATA



TRIM38 (E-17): sc-102142. Western blot analysis of TRIM38 expression in Jurkat whole cell lysate.

RESEARCH USE

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