

TRIM65 (C-12): sc-138706

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. TRIM proteins are involved in a wide variety of cellular processes such as cell development, proliferation, differentiation, oncogenesis and apoptosis. Many TRIM proteins are induced by type I and type II interferons, making them crucial for development of pathogen-resistance. TRIM65 (tripartite motif containing 65), is a 517 amino acid protein that belongs to the TRIM/RBCC family. Containing a B box-type zinc finger, a B30.2/SPRY domain and a RING-type zinc finger, TRIM65 is encoded by a gene located on human chromosome 17q25.1. Chromosome 17 makes up over 2.5% of the human genome, with about 81 million bases encoding over 1,200 genes.

REFERENCES

- Jensen, K., Shiels, C. and Freemont, P.S. 2001. PML protein isoforms and the RBCC/TRIM motif. *Oncogene* 20: 7223-7233.
- Nisole, S., Stoye, J.P. and Saib, A. 2005. TRIM family proteins: retroviral restriction and antiviral defence. *Nat. Rev. Microbiol.* 3: 799-808.
- 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.
- Du Pasquier, L. 2009. Fish 'n' TRIMs. *J. Biol.* 8: 50.
- Munir, M. 2010. TRIM proteins: another class of viral victims. *Sci. Signal.* 3: jc2.

CHROMOSOMAL LOCATION

Genetic locus: TRIM65 (human) mapping to 17q25.1; Trim65 (mouse) mapping to 11 E2.

SOURCE

TRIM65 (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TRIM65 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-138706 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

TRIM65 (C-12) is recommended for detection of TRIM65 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TRIM family members.

Suitable for use as control antibody for TRIM65 siRNA (h): sc-93883, TRIM65 siRNA (m): sc-154665, TRIM65 shRNA Plasmid (h): sc-93883-SH, TRIM65 shRNA Plasmid (m): sc-154665-SH, TRIM65 shRNA (h) Lentiviral Particles: sc-93883-V and TRIM65 shRNA (m) Lentiviral Particles: sc-154665-V.

Molecular Weight of TRIM65: 57 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) 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.

RESEARCH USE

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