

TRIM69 (Q-20): sc-79792



The Power to Question

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. TRIM69 (tripartite motif-containing 69), also known as Trif, HSD34 or RNF36 (RING finger protein 36), is a 500 amino acid protein that belongs to the TRIM family and contains one RING-type zinc finger and one B30.2/SPRY domain. Localizing to nuclear speckles, TRIM69 interacts with PML (promyelocytic leukemia) and is thought to play a role in spermatogenesis and, when overexpressed, may be involved in apoptosis. TRIM69 is subject to posttranslational phosphorylation, an event which is necessary for TRIM69 nuclear localization. Multiple isoforms of TRIM69 exist due to alternative splicing events.

REFERENCES

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3. 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.
4. Shyu, H.W., Hsu, S.H., Hsieh-Li, H.M. and Li, H. 2003. Forced expression of RNF36 induces cell apoptosis. *Exp. Cell Res.* 287: 301-313.
5. Meroni, G. and Diez-Roux, G. 2005. TRIM/RBCC, a novel class of "single protein RING finger" E3 ubiquitin ligases. *Bioessays* 27: 1147-1157.
6. Sardiello, M., Cairo, S., Fontanella, B., Ballabio, A. and Meroni, G. 2008. Genomic analysis of the TRIM family reveals two groups of genes with distinct evolutionary properties. *BMC Evol. Biol.* 8: 225.
7. 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.

CHROMOSOMAL LOCATION

Genetic locus: TRIM69 (human) mapping to 15q21.1; Trim69 (mouse) mapping to 2 E5.

SOURCE

TRIM69 (Q-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM69 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 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79792 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM69 (Q-20) is recommended for detection of TRIM69 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).

TRIM69 (Q-20) is also recommended for detection of TRIM69 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TRIM69 siRNA (h): sc-76752, TRIM69 siRNA (m): sc-76753, TRIM69 shRNA Plasmid (h): sc-76752-SH, TRIM69 shRNA Plasmid (m): sc-76753-SH, TRIM69 shRNA (h) Lentiviral Particles: sc-76752-V and TRIM69 shRNA (m) Lentiviral Particles: sc-76753-V.

Molecular Weight of TRIM69: 57 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

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.

RESEARCH USE

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