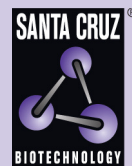


# TRIM9 (S-12): sc-107103



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. TRIM9 (tripartite motif-containing protein 9), also known as RNF91 (RING finger protein 91), is a 710 amino acid protein that contains a variety of domains that are characteristic to TRIM proteins, including a RING-type zinc finger and 2 B box-type zinc fingers, as well as a Fibronectin type-III domain, a COS domain and a B30.2/SPRY domain. TRIM9 utilizes its coiled coil domain to mediate the interaction with the amino-terminal t-SNARE domain of SNAP 25. In this manner, TRIM9 acts as a regulator of synaptic vesicle exocytosis by controlling the availability of SNAP 25 for the formation of the SNARE complex. There are three isoforms of TRIM9 that are produced as a result of alternative splicing events.

## REFERENCES

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2. Berti, C., et al. 2002. TRIM9 is specifically expressed in the embryonic and adult nervous system. *Mech. Dev.* 113: 159-162.
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5. Dhingra, V., et al. 2007. Proteomic profiling reveals that rabies virus infection results in differential expression of host proteins involved in ion homeostasis and synaptic physiology in the central nervous system. *J. Neurovirol.* 13: 107-117.
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## CHROMOSOMAL LOCATION

Genetic locus: TRIM9 (human) mapping to 14q22.1; Trim9 (mouse) mapping to 12 C2.

## SOURCE

TRIM9 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM9 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.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107103 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRIM9 (S-12) is recommended for detection of TRIM9 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); non cross-reactive with other TRIM family members.

TRIM9 (S-12) is also recommended for detection of TRIM9 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TRIM9 siRNA (h): sc-92385, TRIM9 siRNA (m): sc-154673, TRIM9 shRNA Plasmid (h): sc-92385-SH, TRIM9 shRNA Plasmid (m): sc-154673-SH, TRIM9 shRNA (h) Lentiviral Particles: sc-92385-V and TRIM9 shRNA (m) Lentiviral Particles: sc-154673-V.

Molecular Weight of TRIM9: 79 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, SK-N-MC cell lysate: sc-2237 or IMR-32 cell lysate: sc-2409.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.