

TRIM9 (N-15): sc-107102

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.

CHROMOSOMAL LOCATION

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

SOURCE

TRIM9 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TRIM9 of human origin.

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-107102 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.

APPLICATIONS

TRIM9 (N-15) 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), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 (N-15) 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.

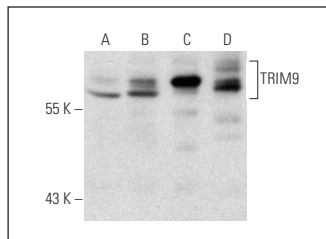
Molecular Weight of TRIM9: 79 kDa.

Positive Controls: mouse cerebellum extract: sc-2403, 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TRIM9 (N-15): sc-107102. Western blot analysis of TRIM9 expression in EOC 20 (A), SK-N-MC (B) and IMR-32 (C) whole cell lysates and mouse cerebellum tissue extract (D).

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.



Try **TRIM9 (G-4): sc-515007** or **TRIM9 (D-11): sc-515040**, our highly recommended monoclonal alternatives to TRIM9 (N-15).