

TRIM4 (S-15): sc-244491

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. TRIM4 (tripartite motif-containing protein 4), also known as RING finger protein 87, is a 500 amino acid protein that contains a variety of domains that are characteristic to TRIM proteins, including a RING-type zinc finger, a B box-type zinc finger and a B30.2/SPRY domain. The fusion kinase ZNF198-FGFR1, which is a constitutively activated tyrosine kinase associated with a specific atypical myeloproliferative disease, phosphorylates TRIM4, as well as SSBP2, c-Abl, FLJ14235 and CALM. This suggests that TRIM4 phosphorylation could be implicated in leukemogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM4 (human) mapping to 7q22.1.

SOURCE

TRIM4 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM4 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244491 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM4 (S-15) is recommended for detection of TRIM4 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)], 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.

Suitable for use as control antibody for TRIM4 siRNA (h): sc-89605, TRIM4 shRNA Plasmid (h): sc-89605-SH and TRIM4 shRNA (h) Lentiviral Particles: sc-89605-V.

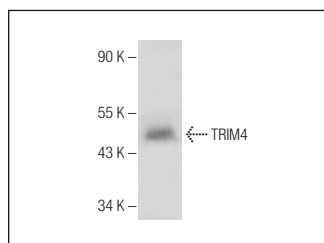
Molecular Weight of TRIM4 isoforms 1/2/3: 57/54/34 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

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



TRIM4 (S-15): sc-244491. Western blot analysis of TRIM4 expression in MCF7 whole cell lysate.

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.