

TRIM14 (G-15): sc-79761

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. TRIM14 (tripartite motif-containing 14) is a 442 amino acid protein belonging to the TRIM/RBCC family. With highest expression in liver, TRIM14 contains one B box-type zinc finger and one B30.2/SPRY domain. Through its B-box zinc finger domain, TRIM14 inhibits the transcriptional activity of PU.1 in a dose-dependent manner. TRIM14 exists as two alternatively spliced isoforms that are designated isoform α and isoform β . TRIM14 is encoded by a gene located on human chromosome 9, which consists of about 145 million bases, 4% of the human genome and encodes nearly 900 genes. Chromosome 9 may play a role in gender determination and deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM14 (human) mapping to 9q22.33; Trim14 (mouse) mapping to 4 B1.

SOURCE

TRIM14 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM14 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-79761 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM14 (G-15) is recommended for detection of TRIM14 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

TRIM14 (G-15) is also recommended for detection of TRIM14 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TRIM14 siRNA (h): sc-76736, TRIM14 siRNA (m): sc-76737, TRIM14 shRNA Plasmid (h): sc-76736-SH, TRIM14 shRNA Plasmid (m): sc-76737-SH, TRIM14 shRNA (h) Lentiviral Particles: sc-76736-V and TRIM14 shRNA (m) Lentiviral Particles: sc-76737-V.

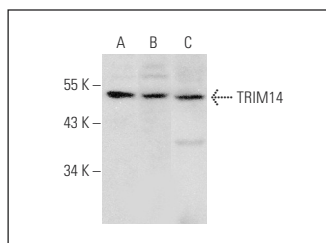
Molecular Weight of TRIM14: 50 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, human liver extract: sc-363766 or THP-1 cell lysate: sc-2238.

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



TRIM14 (G-15): sc-79761. Western blot analysis of TRIM14 expression in Jurkat (A) and THP-1 (B) whole cell lysates and human liver tissue extract (C).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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