TRIM48 (H-22): sc-134122

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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. Many TRIM proteins are induced by type I and type II interferons, making them crucial for development of pathogen-resistance. TRIM48 (tripartite motif-containing protein 48), also known as RING finger protein 101, is a 208 amino acid protein that contains one RING-type zinc finger and one B box-type zinc finger. The gene encoding TRIM48 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM48 (human) mapping to 11q11.

SOURCE

TRIM48 (H-22) is an affinity purified rabbit polyclonal antibody raised against synthetic TRIM48 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

TRIM48 (H-22) is recommended for detection of TRIM48 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM48 siRNA (h): sc-96902, TRIM48 shRNA Plasmid (h): sc-96902-SH and TRIM48 shRNA (h) Lentiviral Particles: sc-96902-V.

Molecular Weight of TRIM48: 24 kDa.

Positive Controls: human liver extract: sc-363766, human fetal liver tissue extract or Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA
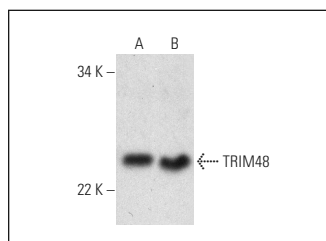
TRIM48 (H-22): sc-134122. Western blot analysis of TRIM48 expression in Hep G2 whole cell lysate (**A**) and human liver tissue extract (**B**).
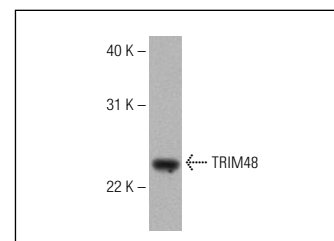
TRIM48 (H-22): sc-134122. Western blot analysis of TRIM48 expression in human fetal liver tissue extract.

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.