SANTA CRUZ BIOTECHNOLOGY, INC.

MIP-T3 (C-20): sc-12250

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The Power to Question

BACKGROUND

Tumor necrosis factor receptor (TNFR) superfamily members transmit signals regulating proliferation, differentiation and apoptosis in various types of cells. TNFR-associated factors (TRAFs) are a family of proteins that were initially discovered as downstream signal transducers of the TNFR superfamily. TRAF3 contains an N-terminal ring finger/zinc finger region that is thought to be essential for downstream signaling. MIP-T3 is associated with TRAF3. MIP-T3 binds to taxol-stabilized microtubules and to tubulin *in vitro,* and MIP-T3 recruits TRAF3 to microtubules when both proteins are overexpressed. The MIP-T3/TRAF3 interaction requires the coiled-coil TRAF-N domain of TRAF3. This interaction may provide a novel mechanism in sequestering TRAF3 to the cytoskeletal network.

REFERENCES

1. Rothe, M., et al. 1994. A novel family of putative signal transducers associated with the cytoplasmic domain of the 75 kDa tumor necrosis factor receptor. Cell 78: 681-692.
2. Hu, H. M., et al. 1994. A novel RING finger protein interacts with the cytoplasmic domain of CD40. J. Biol. Chem. 269: 30069-30072.

CHROMOSOMAL LOCATION

Genetic locus: TRAF3IP1 (human) mapping to 2q37.3; Traf3ip1 (mouse) mapping to 1 D.

SOURCE

MIP-T3 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MIP-T3 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-12250 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MIP-T3 (C-20) is recommended for detection of MIP-T3 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).

MIP-T3 (C-20) is also recommended for detection of MIP-T3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MIP-T3 siRNA (h): sc-106224, MIP-T3 siRNA (m): sc-149437, MIP-T3 shRNA Plasmid (h): sc-106224-SH, MIP-T3 shRNA Plasmid (m): sc-149437-SH, MIP-T3 shRNA (h) Lentiviral Particles: sc-106224-V and MIP-T3 shRNA (m) Lentiviral Particles: sc-149437-V.

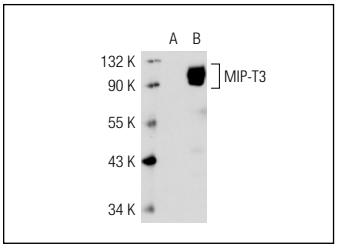
Molecular Weight of MIP-T3: 83 kDa.

Positive Controls: MIP-T3 (h): 293T Lysate: sc-116118.

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



MIP-T3 (C-20): sc-12250. Western blot analysis of MIP-T3 expression in non-transfected: sc-117752 (**A**) and human MIP-T3 transfected: sc-116118 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Ng, M.H., et al. 2011. MIP-T3 is a negative regulator of innate type I IFN response. J. Immunol. 187: 6473-6482.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.