SANTA CRUZ BIOTECHNOLOGY, INC.

MIP-T3 (N-18): sc-12247

SANTA CRUZ BIOTECHNOLOGY

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 protein that 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. Ling, L. and Goeddel, D.V. 2000. MIP-T3, a novel protein linking TRAF3 to the microtubule network. J. Biol. Chem. 275: 23852-23860.
2. Arch, R.H., Gedrich, R.W. and Thompson, C.B. 1998. Tumor necrosis factor receptor-associated factors TRAFs-α family of adapter proteins that regulates life and death. Genes Dev. 12: 2821-2830.
3. Wajant, H., Grell, M. and Scheurich, P. 1999. TNF receptor associated factors in cytokine signaling. Cytokine Growth Factor Rev. 10: 15-26.
4. Rothe, M., Wong, S.C., Henzel, W.J. and Goeddel, D.V. 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.
5. Hu, H. M., O'Rourke, K., Boguski, M.S. and Dixit, V.M. 1994. A novel RING finger protein interacts with the cytoplasmic domain of CD40. J. Biol. Chem. 269: 30069-30072.
6. Cheng, G., Cleary, A.M., Ye, Z.S., Hong, D.I., Lederman, S. and Baltimore, D. 1995. Involvement of CRAF1, a relative of TRAF, in CD40 signaling. Science 267: 1494-1498.

CHROMOSOMAL LOCATION

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

SOURCE

MIP-T3 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-12247 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

MIP-T3 (N-18) 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 (N-18) is also recommended for detection of MIP-T3 in additional species, including bovine.

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.

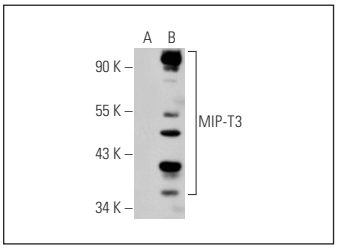
Molecular Weight of MIP-T3: 83 kDa.

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 (N-18): sc-12247. 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.

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.