MIP-T3 (F-1): sc-393753



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

- Ling, L. and Goeddel, D.V. 2000. MIP-T3, a novel protein linking tumor necrosis factor receptor-associated factor 3 to the microtubule network. J. Biol. Chem. 275: 23852-23860.
- 2. Niu, Y., et al. 2003. MIP-T3 associates with IL-13Rα1 and suppresses Stat6 activation in response to IL-13 stimulation. FEBS Lett. 550: 139-143.
- Dadgostar, H., et al. 2003. T3JAM, a novel protein that specifically interacts with TRAF3 and promotes the activation of JNK1. FEBS Lett. 553: 403-407.
- Morris, J.A., et al. 2003. DISC1 (disrupted-in-schizophrenia 1) is a centrosome-associated protein that interacts with MAP1A, MIPT3, ATF4/5 and NUDEL: regulation and loss of interaction with mutation. Hum. Mol. Genet. 12: 1591-1608.
- Kakiuchi, C., et al. 2007. Association analysis of ATF4 and ATF5, genes for interacting-proteins of DISC1, in bipolar disorder. Neurosci. Lett. 417: 316-321.

CHROMOSOMAL LOCATION

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

SOURCE

MIP-T3 (F-1) is a mouse monoclonal antibody raised against amino acids 555-691 mapping at the C-terminus of MIP-T3 of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MIP-T3 (F-1) is available conjugated to agarose (sc-393753 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-393753 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393753 PE), fluorescein (sc-393753 FITC), Alexa Fluor* 488 (sc-393753 AF488), Alexa Fluor* 546 (sc-393753 AF546), Alexa Fluor* 594 (sc-393753 AF594) or Alexa Fluor* 647 (sc-393753 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor* 680 (sc-393753 AF680) or Alexa Fluor* 790 (sc-393753 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

MIP-T3 (F-1) is recommended for detection of MIP-T3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

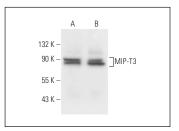
Molecular Weight of MIP-T3: 83 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or U-87 MG cell lysate: sc-2411.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



MIP-T3 (F-1): sc-393753. Western blot analysis of MIP-T3 expression in HeLa (**A**) and U-87 MG (**B**) whole cell lysates.

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 for detailed protocols and support products.