

TIP-1 (1H5): sc-517168

BACKGROUND

Tax interaction protein 1 (TIP-1), also known as Tax1-binding protein 3 or glutaminase-interacting protein 3, is a 124 amino acid protein localized to the cytoplasm and nucleus. TIP-1 contains one PDZ domain, through which most of its interactions with other proteins are made. The PDZ domain of TIP-1 interacts with the C-terminus of Rhotekin to facilitate Rho-mediated activation of the FOS serum response element. The PDZ domain also interacts with β -catenin to inhibit the transcriptional activity of β -catenin. TIP-1 may also act as an inhibitor of the Wnt signaling pathway. TIP-1 has been detected in a variety of cell lines, including HeLa, and is weakly expressed in peripheral blood leukocytes.

REFERENCES

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3. Olalla, L., et al. 2001. The C-terminus of human glutaminase L mediates association with PDZ domain-containing proteins. *FEBS Lett.* 488: 116-122.
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5. Xie, L., et al. 2006. PDZ binding motif of HTLV-1 Tax promotes virus-mediated T-cell proliferation *in vitro* and persistence *in vivo*. *Blood* 107: 1980-1988.
6. Alewine, C., et al. 2006. TIP-1 has PDZ scaffold antagonist activity. *Mol. Biol. Cell* 17: 4200-4211.
7. Park, H.U., et al. 2006. Human T-cell leukemia virus type 1 Tax attenuates gamma-irradiation-induced apoptosis through physical interaction with Chk2. *Oncogene* 25: 438-447.
8. Besser, J., et al. 2007. Tip-1 induces filopodia growth and is important for gastrulation movements during zebrafish development. *Dev. Growth Differ.* 49: 205-214.
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CHROMOSOMAL LOCATION

Genetic locus: TAX1BP3 (human) mapping to 17p13.2; Tax1bp3 (mouse) mapping to 11 B4.

SOURCE

TIP-1 (1H5) is a mouse monoclonal antibody raised against amino acids 1-124 representing full length TIP-1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TIP-1 (1H5) is recommended for detection of TIP-1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

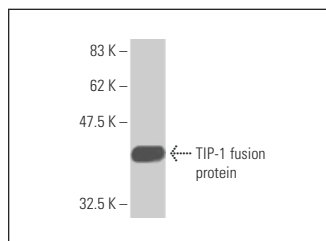
Suitable for use as control antibody for TIP-1 siRNA (h): sc-94102, TIP-1 siRNA (m): sc-154278, TIP-1 shRNA Plasmid (h): sc-94102-SH, TIP-1 shRNA Plasmid (m): sc-154278-SH, TIP-1 shRNA (h) Lentiviral Particles: sc-94102-V and TIP-1 shRNA (m) Lentiviral Particles: sc-154278-V.

Molecular Weight of TIP-1: 14 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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



TIP-1 (1H5): sc-517168. Western blot analysis of human recombinant TIP-1 fusion protein.

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.