

TRIP6 (F-10): sc-365972

BACKGROUND

Zyxin is a LIM domain-containing, zinc finger domain-containing, SH3 ligand-containing phosphoprotein that localizes to focal adhesion plaques and Actin filament bundles. TRIP6 is a Zyxin-related protein. Thyroid receptor interacting protein 6 (TRIP6) interacts with the ligand binding domain of the thyroid receptor, and is predominantly expressed in kidney, liver and lung. TRIP6 interacts with receptor-interacting protein 2 (RIP2) through LIM domains in a TNF- or IL-1-dependent manner. TRIP6 also interacts with TRAF2, a protein that is crucially involved in TNF signaling, as well as the IL-1 receptor, TLR2 and Nod1. Overexpression of TRIP6 facilitates NF κ B activation by TNF, IL-1, TLR2 or Nod1, whereas a dominant negative mutant or RNA-interference construct of TRIP6 inhibits NF κ B activation by TNF, IL-1, TLR2 or Nod1. Moreover, TRIP6 also potentiates RIP2- and Nod1-mediated ERK activation.

REFERENCES

- Xu, J., et al. 2004. TRIP6 enhances lysophosphatidic acid-induced cell migration by interacting with the lysophosphatidic acid 2 receptor. *J. Biol. Chem.* 279: 10459-10468.
- Lai, Y.J., et al. 2005. c-Src-mediated phosphorylation of TRIP6 regulates its function in lysophosphatidic acid-induced cell migration. *Mol. Cell Biol.* 25: 5859-5868.
- Li, L., et al. 2005. TRIP6 is a RIP2-associated common signaling component of multiple NF κ B activation pathways. *J. Cell Sci.* 118: 555-563.
- Petit, M.M., et al. 2005. The tumor suppressor Scrib selectively interacts with specific members of the Zyxin family of proteins. *FEBS Lett.* 579: 5061-5068.
- Gur'ianova, O.A., et al. 2005. Down-regulation of TRIP6 expression induces Actin cytoskeleton rearrangements in human carcinoma cell lines. *Mol. Biol.* 39: 905-909.

CHROMOSOMAL LOCATION

Genetic locus: TRIP6 (human) mapping to 7q22.1.

SOURCE

TRIP6 (F-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 57-83 near the N-terminus of TRIP6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG γ_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-365972 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TRIP6 (F-10) is recommended for detection of TRIP6 of 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), immunohistochemistry (including paraffin-embedded sections) (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 TRIP6 siRNA (h): sc-45561, TRIP6 shRNA Plasmid (h): sc-45561-SH and TRIP6 shRNA (h) Lentiviral Particles: sc-45561-V.

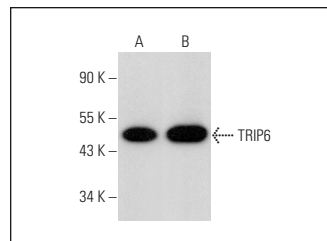
Molecular Weight of TRIP6: 50 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, MCF7 whole cell lysate: sc-2206 or K-562 whole cell lysate: sc-2203.

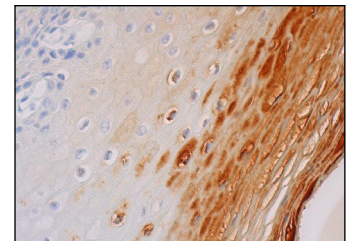
RECOMMENDED SUPPORT REAGENTS

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, 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-IgG κ BP-FITC: sc-516140 or m-IgG 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. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



TRIP6 (F-10): sc-365972. Western blot analysis of TRIP6 expression in K-562 (A) and MCF7 (B) whole cell lysates.



TRIP6 (F-10): sc-365972. Immunoperoxidase staining of formalin fixed, paraffin-embedded human uterine cervix tissue showing cytoplasmic and nuclear staining of squamous epithelial cells.

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.