SANTA CRUZ BIOTECHNOLOGY, INC.

TRIP6 (B-10): sc-376304

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. Thyroid receptor interacting protein 6 (TRIP6) is a Zyxin-related protein. It interacts with the ligand binding domain of the thyroid receptor and is predominantly expressed in kidney, liver and lung. It 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. Over-expression of TRIP6 facilitates NFκB activation by TNF, IL-1, TLR2 or Nod1, whereas a dominant negative mutant or RNA-interference construct of TRIP6 inhibits NFκB activation by TNF, IL-1, TLR2 or Nod1. Moreover, TRIP6 also potentiates RIP2- and Nod1-mediated ERK activation.

REFERENCES

1. 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.
2. 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.
3. Li, L., et al. 2005. TRIP6 is a RIP2-associated common signaling component of multiple NFκB activation pathways. J. Cell Sci. 118: 555-563.
4. 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.
5. Gur'ianova O.A., et al. 2005. Downregulation 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; Trip6 (mouse) mapping to 5 G2.

SOURCE

TRIP6 (B-10) is a mouse monoclonal antibody raised against amino acids 8-94 mapping near the N-terminus of TRIP6 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

TRIP6 (B-10) is recommended for detection of TRIP6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for TRIP6 siRNA (h): sc-45561, TRIP6 siRNA (m): sc-45562, TRIP6 shRNA Plasmid (h): sc-45561-SH, TRIP6 shRNA Plasmid (m): sc-45562-SH, TRIP6 shRNA (h) Lentiviral Particles: sc-45561-V and TRIP6 shRNA (m) Lentiviral Particles: sc-45562-V.

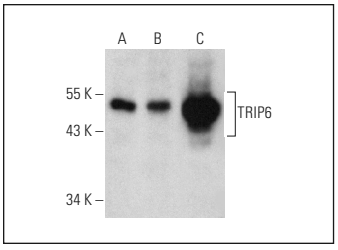
Molecular Weight of TRIP6: 50 kDa.

Positive Controls: NIH/3T3 nuclear extract: sc-2138, C3H/10T1/2 cell lysate: sc-3801 or 3611-RF whole cell lysate: sc-2215.

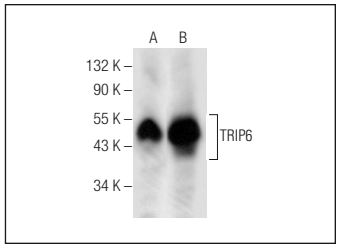
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



TRIP6 (B-10): sc-376304. Western blot analysis of TRIP6 expression in NIH/3T3 (**A**), C3H/10T1/2 (**B**) and RPE-J (**C**) whole cell lysates.



TRIP6 (B-10): sc-376304. Western blot analysis of TRIP6 expression in NIH/3T3 nuclear extract (**A**) and 3611-RF whole cell lysate (**B**).

RESEARCH USE

For research use only, not for use in diagnostic procedures.