

TRIP6 (h): 293T Lysate: sc-114028

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. TRIP6 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. 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

1. Xu, J., Lai, Y.J., Lin, W.C. and Lin, F.T. 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., Chen, C.S., Lin, W.C. and Lin, F.T. 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., Bin, L.H., Li, F., Liu, Y., Chen, D., Zhai, Z. and Shu, H.B. 2005. TRIP6 is a RIP2-associated common signaling component of multiple NF κ B activation pathways. *J. Cell Sci.* 118: 555-563.
4. Petit, M.M., Crombez, K.R., Vervenne, H.B., Weyns, N. and Van de Ven, W.J. 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., Sablina, A.A., Chumakov, P.M. and Frolova, E.I. 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.

PRODUCT

TRIP6 (h): 293T Lysate represents a lysate of human TRIP6 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

TRIP6 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TRIP6 antibodies. Recommended use: 10-20 μ l per lane.

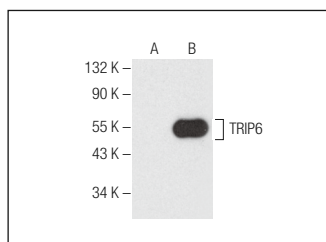
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRIP6 (G-5): sc-376550 is recommended as a positive control antibody for Western Blot analysis of enhanced human TRIP6 expression in TRIP6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



TRIP6 (G-5): sc-376550. Western blot analysis of TRIP6 expression in non-transfected: sc-117752 (A) and human TRIP6 transfected: sc-114028 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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