

TRIP6 (F-8): sc-166310

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

- 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.

CHROMOSOMAL LOCATION

Genetic locus: TRIP6 (human) mapping to 7q22.1; Trip6 (mouse) mapping to 5 G2.

SOURCE

TRIP6 (F-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 124-156 within an internal region of TRIP6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRIP6 (F-8) is available conjugated to agarose (sc-166310 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166310 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166310 PE), fluorescein (sc-166310 FITC), Alexa Fluor[®] 488 (sc-166310 AF488), Alexa Fluor[®] 546 (sc-166310 AF546), Alexa Fluor[®] 594 (sc-166310 AF594) or Alexa Fluor[®] 647 (sc-166310 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-166310 AF680) or Alexa Fluor[®] 790 (sc-166310 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-166310 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

TRIP6 (F-8) 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 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 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.

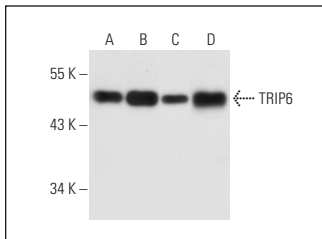
Molecular Weight of TRIP6: 50 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, NIH/3T3 nuclear extract: sc-2125 or RPE-J cell lysate: sc-24771.

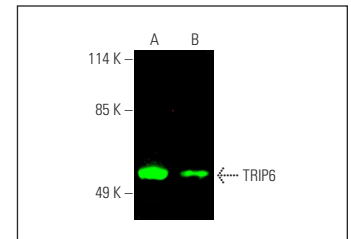
RECOMMENDED SUPPORT REAGENTS

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.

DATA



TRIP6 (F-8): sc-166310. Western blot analysis of TRIP6 expression in HeLa (A), K-562 (B) and NIH/3T3 (C) nuclear extracts and Caki-1 whole cell lysate (D).



TRIP6 (F-8): sc-166310. Near-infrared western blot analysis of TRIP6 expression in K-562 (A) and RPE-J (B) whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgG κ BP-CFL 680: sc-516180.

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.

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