Trio (C-20): sc-6061



The Power to Question

BACKGROUND

Protein tyrosine phosphatases, or PTPs, are type I transmembrane proteins, membrane-associated proteins or proteins localized in nuclei. Examples of transmembrane PTPs are LAR, PTP α , PTP β , PTP

REFERENCES

- 1. den Hertog, J., et al. 1995. Stimulation of receptor protein-tyrosine phosphatase α activity and phosphorylation by phorbol ester. Cell Growth Differ. 6: 303-307.
- 2. Zondag, G.C., et al. 1995. Homophilic interactions mediated by receptor tyrosine phosphatases μ and κ . A critical role for the novel extracellular MAM domain. J. Biol. Chem. 270: 14247-14250.
- 3. Milev, P., et al. 1995. Complex-type asparagine-linked oligosaccharides on phosphacan and protein-tyrosine phosphatase-ζ/β mediate their binding to neural cell adhesion molecules and tenascin. J. Biol. Chem. 270: 24650-24653

CHROMOSOMAL LOCATION

Genetic locus: TRIO (human) mapping to 5p15.2.

SOURCE

Trio (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Trio of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6061 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Trio (C-20) is recommended for detection of Trio of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Trio siRNA (h): sc-36724, Trio shRNA Plasmid (h): sc-36724-SH and Trio shRNA (h) Lentiviral Particles: sc-36724-V.

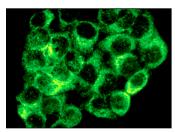
Molecular Weight of Trio: 358 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Trio (C-20): sc-6061. Immunofluorescence staining of methanol-fixed HeLa cells showing probably cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Portales-Casamar, E., et al. 2006. Identification of novel neuronal isoforms of the Rho-GEF Trio. Biol. Cell 98: 183-193.
- 2. Backer, S., et al. 2007. Trio controls the mature organization of neuronal clusters in the hindbrain. J. Neurosci. 27: 10323-10332.
- Calaf, G.M. and Roy, D. 2007. Gene and protein expressions induced by 17β-estradiol and parathion in cultured breast epithelial cells. Mol. Med. 13: 255-265.
- Charrasse, S., et al. 2007. M-cadherin activates Rac1 GTPase through the Rho-GEF Trio during myoblast fusion. Mol. Biol. Cell 18: 1734-1743.
- Bach, A.S., et al. 2010. ADP-ribosylation factor 6 regulates mammalian myoblast fusion through phospholipase D₁ and phosphatidylinositol 4,5bisphosphate signaling pathways. Mol. Biol. Cell 21: 2412-2424.

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 or our catalog for detailed protocols and support products.