# SANTA CRUZ BIOTECHNOLOGY, INC.

# TOCA-1 (N-17): sc-103903



BACKGROUND

TOCA-1 (transducer of Cdc42-dependent actin assembly protein 1), also known as FNBP1L (formin binding protein 1-like), is a 605 amino acid protein that localizes to the cytoplasm and the cytoskeleton, as well as to cytoplasmic vesicles and the cell membrane, and contains one FCH domain, one REM repeat and one SH3 domain. Existing as multiple alternatively spliced isoforms, TOCA-1 interacts with CDC42 and is required for the coordination of membrane tubulation with Actin cytoskeletal reorganization during endocytosis. Additionally, TOCA-1 is involved in membrane invagination, tubule formation and Actin polymerization. The gene encoding TOCA-1 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

## REFERENCES

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- Kakimoto, T., et al. 2006. Regulation of neuronal morphology by Toca-1, an F-BAR/EFC protein that induces plasma membrane invagination. J. Biol. Chem. 281: 29042-29053.
- Tsujita, K., et al. 2006. Coordination between the actin cytoskeleton and membrane deformation by a novel membrane tubulation domain of PCH proteins is involved in endocytosis. J. Cell Biol. 172: 269-279.
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- Huett, A., et al. 2009. A novel hybrid yeast-human network analysis reveals an essential role for FNBP1L in antibacterial autophagy. J. Immunol. 182: 4917-4930.

## CHROMOSOMAL LOCATION

Genetic locus: FNBP1L (human) mapping to 1p22.1; Fnbp1I (mouse) mapping to 3 G1.

#### SOURCE

TOCA-1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TOCA-1 of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103903 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# APPLICATIONS

TOCA-1 (N-17) is recommended for detection of TOCA-1 of mouse, rat and 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 TOCA-1 siRNA (h): sc-88407, TOCA-1 siRNA (m): sc-106624, TOCA-1 shRNA Plasmid (h): sc-88407-SH, TOCA-1 shRNA Plasmid (m): sc-106624-SH, TOCA-1 shRNA (h) Lentiviral Particles: sc-88407-V and TOCA-1 shRNA (m) Lentiviral Particles: sc-106624-V.

Molecular Weight of TOCA-1: 70 kDa.

## **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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **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.