

TAPP2 (T-20): sc-54752

BACKGROUND

Tandem PH (pleckstrin homology) domain-containing protein 2 (TAPP2) is a widely expressed cytoplasmic adaptor protein related to BAM32. Highest expression levels of TAPP2 are found in heart and kidney tissues. Upon growth factor stimulation and activation of phosphoinositol 3-kinase, TAPP2 is recruited to the plasma membrane and accumulates in F-actin-rich membrane ruffles. This recruitment occurs through the specific interaction of the TAPP2 C-terminal PH domain with phosphatidylinositol 3,4-bisphosphate. TAPP2 is positively regulated by FcγRIII and SHIP. The overexpression of TAPP2 increases NFAT-dependent transcriptional activation after G cell Ag receptor ligation and increases the sustained phase of the calcium response. TAPP2 may play a role in the activation of B and T cells.

REFERENCES

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- Kimber, W.A., et al. 2003. Interaction of the protein tyrosine phosphatase PTPN11 with the PtdIns(3,4)P2-binding adaptor protein TAPP1. *Biochem. J.* 376: 525-535.
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CHROMOSOMAL LOCATION

Genetic locus: PLEKHA2 (human) mapping to 8p11.22; Plekha2 (mouse) mapping to 8 A2.

SOURCE

TAPP2 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAPP2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-54752 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TAPP2 (T-20) is recommended for detection of TAPP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

TAPP2 (T-20) is also recommended for detection of TAPP2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TAPP2 siRNA (h): sc-63102, TAPP2 siRNA (m): sc-63103, TAPP2 shRNA Plasmid (h): sc-63102-SH, TAPP2 shRNA Plasmid (m): sc-63103-SH, TAPP2 shRNA (h) Lentiviral Particles: sc-63102-V and TAPP2 shRNA (m) Lentiviral Particles: sc-63103-V.

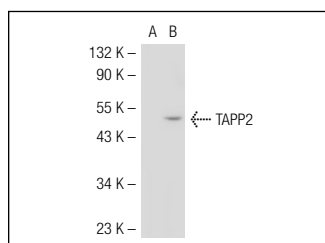
Molecular Weight of TAPP2: 47 kDa.

Positive Controls: TAPP2 (m): 293T Lysate: sc-123912 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: 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.

DATA



TAPP2 (T-20): sc-54752. Western blot analysis of TAPP2 expression in non-transfected: sc-117752 (A) and mouse TAPP2 transfected: sc-123912 (B) 293T whole cell lysates.

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.