

# TAPP2 (H-60): sc-50469

## 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 PTP11 with the PtdIns(3,4)P2-binding adaptor protein TAPP1. *Biochem. J.* 376: 525-535.
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- Ivetac, I., et al. 2005. The type Iα inositol polyphosphate 4-phosphatase generates and terminates phosphoinositide 3-kinase signals on endosomes and the plasma membrane. *Mol. Biol. Cell* 16: 2218-2233.

## CHROMOSOMAL LOCATION

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

## SOURCE

TAPP2 (H-60) is a rabbit polyclonal antibody raised against amino acids 121-180 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.

## APPLICATIONS

TAPP2 (H-60) is recommended for detection of TAPP2 of human and, to a lesser extent, mouse and rat 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).

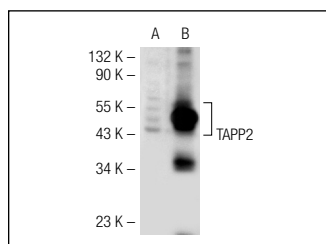
TAPP2 (H-60) is also recommended for detection of TAPP2 in additional species, including equine, canine, bovine and porcine.

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.

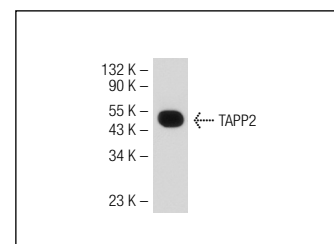
Molecular Weight of TAPP2: 47 kDa.

Positive Controls: TAPP2 (m): 293T Lysate: sc-123912 or HeLa whole cell lysate: sc-2200.

## DATA



TAPP2 (H-60): sc-50469. Western blot analysis of TAPP2 expression in non-transfected: sc-117752 (A) and mouse TAPP2 transfected: sc-123912 (B) 293T whole cell lysates.



TAPP2 (H-60): sc-50469. Western blot analysis of TAPP2 expression in HeLa whole cell lysate.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **TAPP2 (A-7): sc-166351** or **TAPP2 (C-8): sc-271307**, our highly recommended monoclonal alternatives to TAPP2 (H-60).