

# TBPIP (C-14): sc-162288

## BACKGROUND

TBPIP (TBP-1-interacting protein), also known as PSMC3IP (PSMC3 interacting protein) or HOP2, is a 217 amino acid protein that localizes to the nucleus and is subject to phosphorylation by PKA, PKC or MAPK. Expressed at high levels in colon and testis, TBPIP functions to stimulate Dmc1-mediated strand exchange, thereby playing an important role in the pairing of homologous chromosomes during meiosis and during meiotic recombination. Human TBPIP shares 88% sequence identity with its mouse counterpart, suggesting a conserved role between species. TBPIP exists as multiple alternatively spliced isoforms and, when overexpressed, may be involved in the development of leiomyomas; benign soft tissue neoplasms that are found in smooth muscle. The gene encoding TBPIP maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

## REFERENCES

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3. Ko, L., Cardona, G.R., Henrion-Caude, A. and Chin, W.W. 2002. Identification and characterization of a tissue-specific coactivator, GT198, that interacts with the DNA-binding domains of nuclear receptors. *Mol. Cell. Biol.* 22: 357-369.
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## CHROMOSOMAL LOCATION

Genetic locus: PSMC3IP (human) mapping to 17q21.2; Psmc3ip (mouse) mapping to 11 D.

## SOURCE

TBPIP (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TBPIP of human origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## 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-162288 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-162288 X, 200 µg/0.1 ml.

## APPLICATIONS

TBPIP (C-14) is recommended for detection of TBPIP 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).

TBPIP (C-14) is also recommended for detection of TBPIP in additional species, including equine, canine, bovine, porcine and avian

Suitable for use as control antibody for TBPIP siRNA (h): sc-93606, TBPIP siRNA (m): sc-154122, TBPIP shRNA Plasmid (h): sc-93606-SH, TBPIP shRNA Plasmid (m): sc-154122-SH, TBPIP shRNA (h) Lentiviral Particles: sc-93606-V and TBPIP shRNA (m) Lentiviral Particles: sc-154122-V.

TBPIP (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TBPIP: 24 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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

## 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.