**BACKGROUND**

TBPIP (TB-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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

TBPIP (A-5) is a mouse monoclonal antibody raised against amino acids 1-217 representing full-length TBPIP of human origin.

**PRODUCT**

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

TBPIP (A-5) is recommended for detection of TBPIP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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). 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.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

TBPIP (A-5): sc-514014. Western blot analysis of TBPIP expression in Hep G2 (A), Jurkat (B), K-562 (C) and U-251-MG (D) whole cell lysates. TBPIP (A-5): sc-514014. Western blot analysis of TBPIP expression in Jurkat (A) and U-698-M (B) whole cell lysates, HeLa nuclear extract (C) and rat testis tissue extract (D).

**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 website at www.scbt.com for detailed protocols and support products.