**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**


**CHROMOSOMAL LOCATION**

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

**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 IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

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 1:30-1:300).

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.

Molecular Weight of TBPIP: 24 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ 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**

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.