

TSPY (SF-2): sc-69843

BACKGROUND

Testis-specific protein Y-encoded (TSPY) is the product of a tandem gene cluster on the human proximal Yp gene. TSPY genes have been conserved and maintained on the mammalian Y chromosome since before the radiation of eutheria, 80 million years ago. TSPY functions as an important factor in cell cycle progression, cell proliferation and tumorigenesis. TSPY may participate in the oncogenesis of gonadoblastoma expression and a variety of other tumor tissues, including testicular germ cell tumors, prostate cancer, melanoma and liver cancer. The SOX family of proteins regulate the expression of TSPY, and its activity is phosphorylation dependent. TSPY may be a potential candidate in vaccine strategy for immunotherapy in hepatocellular carcinoma patients.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TSPY1 (human) mapping to Yp11.2.

SOURCE

TSPY (SF-2) is a mouse monoclonal antibody raised against recombinant partial length TSPY 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.

APPLICATIONS

TSPY (SF-2) is recommended for detection of TSPY of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for TSPY siRNA (h): sc-91547, TSPY shRNA Plasmid (h): sc-91547-SH and TSPY shRNA (h) Lentiviral Particles: sc-91547-V.

Molecular Weight of TSPY isoforms: 33-38 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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 for detailed protocols and support products.