

TSPY (SF-7): sc-69844

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; Tspyl1 (mouse) mapping to 10 B1.

SOURCE

TSPY (SF-7) 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-7) is recommended for detection of TSPY of mouse, rat and human 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)] 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 siRNA (m): sc-76767, TSPY shRNA Plasmid (h): sc-91547-SH, TSPY shRNA Plasmid (m): sc-76767-SH, TSPY shRNA (h) Lentiviral Particles: sc-91547-V and TSPY shRNA (m) Lentiviral Particles: sc-76767-V.

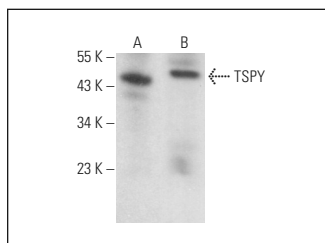
Molecular Weight of TSPY isoforms: 33-38 kDa.

Positive Controls: human testis extract: sc-363781, mouse testis extract: sc-2405 or LNCaP cell lysate: sc-2231.

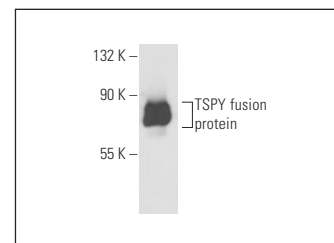
RECOMMENDED SUPPORT REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TSPY (SF-7): sc-69844. Western blot analysis of TSPY expression in human testis (A) and mouse testis (B) tissue extracts.



TSPY (SF-7): sc-69844. Western blot analysis of human recombinant TSPY2 fusion protein.

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.