



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# SPSY (m): 293T Lysate: sc-123759

## BACKGROUND

Spermine synthase (SPSY) catalyzes the production of spermine from spermidine. Spermine, a polyamine ubiquitously present in most organisms, is essential for normal cell growth and differentiation. Because absence of spermine increases sensitivity of cells to anti-tumor agents, spermine synthase (and other polyamine biosynthesis) is an attractive target for anti-neoplastic therapy.

## REFERENCES

1. Hamasaki-Katagiri, N., Katagiri, Y., Tabor, C.W. and Tabor, H. 1998. Spermine is not essential for growth of *Saccharomyces cerevisiae*: identification of the SPE4 gene (spermine synthase) and characterization of a spe4 deletion mutant. *Gene* 210: 195-201.
2. Nilsson, J., Gritli-Linde, A. and Heby, O. 2000. Skin fibroblasts from spermine synthase-deficient hemizygous gyro male (Gy/Y) mice overproduce spermidine and exhibit increased resistance to oxidative stress but decreased resistance to UV irradiation. *Biochem. J.* 352: 381-387.
3. Korhonen, V.P., Niiranen, K., Halmekyto, M., Pietila, M., Diegelman, P., Parkkinen, J.J., Eloranta, T., Porter, C.W., Alhonen, L. and Janne, J. 2001. Spermine deficiency resulting from targeted disruption of the spermine synthase gene in embryonic stem cells leads to enhanced sensitivity to antiproliferative drugs. *Mol. Pharmacol.* 59: 231-238.
4. Ikeguchi, Y., Mackintosh, C.A., McCloskey, D.E. and Pegg, A.E. 2003. Effect of spermine synthase on the sensitivity of cells to anti-tumour agents. *Biochem. J.* 373: 885-892.
5. Sieler, N. 2003. Thirty years of polyamine-related approaches to cancer therapy. Retrospect and prospect. Part 1. Selective enzyme inhibitors. *Curr. Drug Targets* 4: 537-564.

## CHROMOSOMAL LOCATION

Genetic locus: Sms (mouse) mapping to X F4.

## PRODUCT

SPSY (m): 293T Lysate represents a lysate of mouse SPSY transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

SPSY (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SPSY antibodies. Recommended use: 10-20 µl per lane.

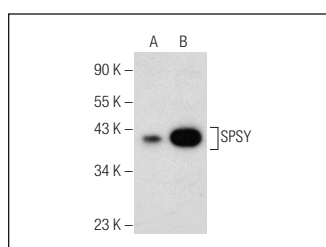
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SPSY (A-4): sc-376294 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SPSY expression in SPSY transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

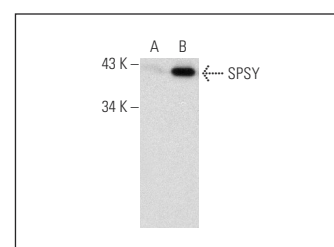
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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.

## DATA



SPSY (A-4): sc-376294. Western blot analysis of SPSY expression in non-transfected: sc-117752 (A) and mouse SPSY transfected: sc-123759 (B) 293T whole cell lysates.



SPSY (H-130): sc-99159. Western blot analysis of SPSY expression in non-transfected: sc-117752 (A) and mouse SPSY transfected: sc-123759 (B) 293T whole cell lysates.

## 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.