



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# STI1 (m): 293T Lysate: sc-123820

## BACKGROUND

Stress-induced-phosphoprotein 1 (STI1) functions as a co-chaperone for HSP 70 and HSP 90 during heat shock response. STI1 exists as either a monomer or a dimer, and this conformational flexibility facilitates its function in organizing HSP 70/HSP 90. HSP 90 acts as an ATPase, and requires the recruitment of client proteins and proper conformation to function. STI1 acts as a "scaffold" for client protein recruitment to the relaxed, ADP-bound conformation of HSP 90, thus suppressing ATP turnover during the loading phase and allowing proper function.

## REFERENCES

- Honore, B., et al. 1992. Molecular cloning and expression of a transformation-sensitive human protein containing the TPR motif and sharing identity to the stress-inducible yeast protein STI1. *J. Biol. Chem.* 267: 8485-8491.
- van der Spuy, J., et al. 2001. The co-chaperone murine stress-inducible protein 1: overexpression, purification, and characterization. *Protein Expr. Purif.* 21: 462-469.
- Siligardi, G., et al. 2002. Regulation of HSP 90 ATPase activity by the co-chaperone Cdc37p/p50Cdc37. *J. Biol. Chem.* 277: 20151-20159.
- Abbas-Terki, T., et al. 2002. The HSP 90 co-chaperones Cdc37 and STI1 interact physically and genetically. *Biol. Chem.* 383: 1335-1342.
- Zanata, S.M., et al. 2002. Stress-inducible protein 1 is a cell surface ligand for cellular prion that triggers neuroprotection. *EMBO J.* 21: 3307-3316.
- Richter, K., et al. 2003. STI1 is a non-competitive inhibitor of the HSP 90 ATPase. Binding prevents the N-terminal dimerization reaction during the ATPase cycle. *J. Biol. Chem.* 278: 10328-10333.
- Wegele, H., et al. 2003. STI1 is a novel activator of the Ssa proteins. *J. Biol. Chem.* 278: 25970-25976.
- Lee, P., et al. 2004. STI1 and Cdc37 can stabilize HSP 90 in chaperone complexes with a protein kinase. *Mol. Biol. Cell.* 15: 1785-1792.
- Sakudo, A., et al. 2005. PrP cooperates with STI1 to regulate SOD activity in PrP-deficient neuronal cell line. *Biochem. Biophys. Res. Commun.* 328: 14-19.

## CHROMOSOMAL LOCATION

Genetic locus: STI1 (human) mapping to 11q13.1.

## PRODUCT

STI1 (m): 293T Lysate represents a lysate of mouse STI1 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

STI1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive STI1 antibodies. Recommended use: 10-20 µl per lane.

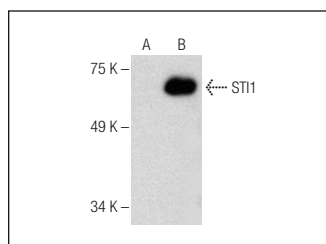
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STI1 (D-6): sc-390203 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse STI1 expression in STI1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

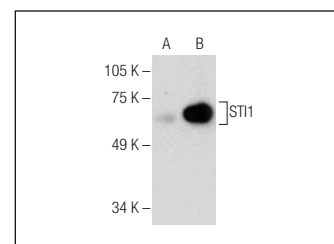
## RECOMMENDED SUPPORT REAGENTS

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.

## DATA



STI1 (D-6): sc-390203. Western blot analysis of STI1 expression in non-transfected: sc-117752 (A) and mouse STI1 transfected: sc-123820 (B) 293T whole cell lysates.



STI1 (E-7): sc-390224. Western blot analysis of STI1 expression in non-transfected: sc-117752 (A) and mouse STI1 transfected: sc-123820 (B) 293T whole cell lysates.

## RESEARCH USE

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