BACKGROUND
Stress-induced-phosphoprotein 1 (STI1) functions as a co-chaperone for HSP70 and HSP90 during heat shock response. STI1 exists as either a monomer or a dimer, and this conformational flexibility facilitates its function in organizing HSP70/HSP90. HSP90 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 HSP90, thus suppressing ATP turnover during the loading phase and allowing proper function.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: STIP1 (human) mapping to 11q13.1; Stip1 (mouse) mapping to 19A.

SOURCE
STI1 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of STI1 of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-515648P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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

APPLICATIONS
STI1 (N-18) is recommended for detection of STI1 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

STI1 (N-18) is also recommended for detection of STI1 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of STI1: 63 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, STI1 (m): 293T Lysate: sc-123820 or NIH/3T3 whole cell lysate: sc-2210.

DATA

SELECT PRODUCT CITATIONS

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

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

Try STI1 (D-6): sc-390203 or STI1 (E-10): sc-390225, our highly recommended monoclonal alternatives to STI1 (N-18).