

# Anti-Sti1p (HOP) Catalog# SPC-203D

Size: 100µL

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This product is for *in vitro* research use only and is not intended for use in humans or animals

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Product	Rabbit anti-Sti1p antibody; polyclonal
Clone	N/A
Immunogen	Yeast Sti1p raised against peptide (CDINQNSMPKEPET)-KLH fusion
Host and Subclass	Rabbit
Applications	WB, not yet tested in other applications
Specificity	Detects ~ 66kDa
Species cross-reactivity	Yeast
Format	Rabbit antiserum in PBS and 50% glycerol
Working Dilution	1:2500 (WB)
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

### Scientific Background

The stress inducible protein Sti1p is also commonly known as Hsp70-Hsp90 organization protein (HOP). It is located in diverse cellular regions and can move between the cytoplasm and the nucleus. It functions to reversibly link together the protein chaperones Hsp70 and Hsp90. HOP contains three tetratricopeptide repeat (TPR) domains, TPR1, TPR2a and TPR2b. Hsp70 binding has been localized to TRP1 and sp90 binding have been localized to TPR2a (1). It has also been found to modulate the chaperone activities of the linked proteins and possible interacts with other chaperones and proteins. It has also been found to participate in other complexes besides the Hsp70/Hsp90 one (2). HOP is closely related to human 63kDa protein that is sensitive to simian virus SV40 transformation, and is related to the yeast heat-shock- responsive STI1 gene product (3, 4).

### Selected References

1. Flom G., Behal R.H., Rosen L., Cole D.G., Johnson J.L. (2007) *Biochem J.* 404(1): 159-167.
2. Harst A., Lin H., Obermann W.M. (2005) *Biochem J.* 387 (pt3): 789-796.
3. Honore B.H., et al. (1992) *J Biol Chem.* 267: 8485-8491.
4. Nicolet C.M., et al. (1989) *Mol Cell Bio.* 9: 3638-3646.

### Certificate of Analysis

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0.5 µg/mL of SPC-203 was sufficient for detection of Sti1p (HOP) in 20 µg of W303 yeast lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.  
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# Material Safety Data Sheet

## Sti1p (Polyclonal Antibody) SPC-203D

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

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### Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
None		

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### Physical Data

This product consists of whole rabbit serum in PBS and 50% glycerol shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

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### Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

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### Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

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### Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

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### Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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### First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.  
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