

Anti-HSP16.6 (Cyanobacteria)

Catalog# SPC-307D

Size: 100µL

PO Box 30244, Suite 405,
3989 Quadra Street,
Victoria, BC V8X 5E1, Canada

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

StressMarq

Biosciences Inc.

Orders • sales@stressmarq.com

Tel: • +1 250 294 9065

Fax: • +1 250 294 9025

Email • info@stressmarq.com

Web • www.stressmarq.com

Product	Rabbit anti-Hsp16.6 (Class II Cytosolic) antibody; polyclonal
Clone	N/A
Immunogen	Recombinant protein. Gene accession number sll1514.
Host and Subclass	Rabbit
Cited Applications	WB
Specificity	Detects 16.6kDa (on a gradient gel this protein runs closer to 11kDa)
Species cross-reactivity	Synechocystis PCC 6803
Format	Lyophilized rabbit serum. (For reconstitution add 100uL of sterile water).
Working dilution	Recommended dilution for WB 1:5000 with ECL
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Scientific Background

Hsp16.6 belongs to the class I family of small heat shock proteins. They are induced once a cell is stressed by an increase in temperature. *Synechocystis* Hsp16.6 is

involved in the development of thermo-tolerance and thylakoid stability. The way small HSP proteins are protecting a living cell is not fully understood. They seem to be involved in chaperone functions by protecting other proteins from irreversible denaturation.

Selected References

1. Fang F, Barnum SR. (2003) The heat shock gene, htpG, and thermotolerance in the cyanobacterium, *Synechocystis* sp. PCC 6803. *Curr Microbiol.* Oct;47(4):341-6.

Certificate of Analysis

0.2uL/ml of SPC-307 was sufficient for detection of Hsp16.6 in 5ug of *Synechocystis* PCC 6803 lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Material Safety Data Sheet

Anti-HSP16.6 (Polyclonal Antibody) SPC-307

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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.

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		

Physical Data

This product consists of rabbit serum shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

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.

Preventative Measures

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

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.

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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