

# Anti-HSP21 (Plant)

## Catalog# SPC-310D

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

# StressMarq

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Product	Rabbit anti-Hsp21 antibody; polyclonal
Clone	N/A
Immunogen	Recombinant Protein
Host and Subclass	Rabbit
Cited Applications	WB
Specificity	Detects ~21kDa
Species cross-reactivity	<i>Arabidopsis thaliana</i> . Other species not tested.
Format	Lyophilized rabbit serum. (For reconstitution add 100uL of sterile water).
Working dilution	Recommended dilution for WB 1:3000 with ECL
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

### Scientific Background

Hsp21 is a chloroplast-localized small heat shock protein. How these small Hsps protect living cells is not fully understood. They seem to be involved in chaperone functions by protecting other proteins from irreversible denaturation. Small Hsps are also produced late in the seed maturation process. Hsp21 has also been shown to protect Photosystem II from temperature-dependent oxidative stress as well as having a role in fruit reddening and the conversion of chloroplasts to chromoplasts (1).

### Selected References

1. Neta-Sharir, T Isaacson, S Lurie, D Weiss (2005) *Plant Cell* 17: 1829-38.

# Material Safety Data Sheet

## Anti-HSP17.7 (Polyclonal Antibody) SPC-310

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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.

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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 rabbit serum 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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