

Anti-Dna K (Alga)

Catalog# SPC-301B

Size: 200µL

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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-Dna K antibody; polyclonal
Clone	N/A
Immunogen	Recombinant Dna K of <i>Chlamydomonas reinhardtii</i>
Host and Subclass	Rabbit
Cited Applications	WB
Specificity	Detects ~70kDa
Species cross-reactivity	<i>Chlamydomonas reinhardtii</i>
Format	Lyophilized Rabbit Serum (for reconstitution, add 200uL of sterile water)
Concentration and working dilution	1.0mg/mL Recommended dilution for WB 1:5000
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Scientific Background

The prokaryotic Hsp70 protein family includes DNA K, HSCA (Hsc66), and HscC (Hsc62) (1). DNAK interacts with DNAJ and GrpE heat shock protein chaperones to fold substrate proteins in an ATP-driven cycle (2). These proteins are also involved in cell protection from environmental stress and other functions which are vital for a living cell. And like eukaryotic Hsp70 homologs, DNAK participates in the assembly/disassembly of protein complexes (3, 4)

Selected References

1. Gohre *et al.* (2006) *The Plant Cell*. 18: 1454-1466.
2. Zylicz M., *et al.* (1983) *PNAS USA*. 80: 6431-6435.
3. Hightower L. (1980) *J Cell Physiol*. 102: 407-427.
4. Pelham H.B.R. (1986) *Cell*. 46: 959-961.

Material Safety Data Sheet

Anti-DNA K (Polyclonal Antibody) SPC-301

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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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