

# Anti-Phosphoserine: HRP

Catalog# SPC-151F

Size: 400µl

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

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Product	Rabbit, polyclonal phosphoserine,
Clone	N/A
Immunogen	Phosphoserine conjugated to KLH
Host and Subclass	Rabbit polyclonal
Cited Applications	WB (5), ELISA (5)
Specificity	Recognizes phosphorylated proteins on serine residues. Does not cross-react with phosphotyrosine.
Species cross-reactivity	Species Independent
Format	Rabbit antiserum in PBS, pH 7.0, 50% glycerol, 0.01% sodium azide
Concentration and working dilution	250µg/ml
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

355-365.

3. Downward, J. (2001). *Nature* 411: 759-762.

4. Pawson, T. and Saxton, T.M. (1999). *Cell* 97: 675-678.

5. Ostrovsky, PC. (1995). *Genes Dev.* 9(16): 2034-2041.

### Certificate of Analysis

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2µg/mL of SPC-151 was sufficient for detection of phosphorylation signal in western blot analysis using human MMRU cells treated with 0.1µM okadaic acid.

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### Scientific Background

Protein phosphorylation is an important posttranslational modification that serves many key functions to regulate a protein's activity, localization, and protein-protein interactions. Phosphorylation is catalyzed by various specific protein kinases, which involves removing a phosphate group from ATP and covalently attaching it to a recipient protein that acts as a substrate. Most kinases act on both serine and threonine; others act on tyrosine, and a number (dual specificity kinases) act on all three. Because phosphorylation can occur at multiple sites on any given protein, it can therefore change the function or localization of that protein at any time (1). Changing the function of these proteins has been linked to a number of diseases, including cancer, diabetes, heart disease, inflammation and neurological disorders (2-4).

### Selected References

1. Goto, H. *et al.* (2005). *Nature Cell Biology* 8: 180-187.

2. Blume-Jensen, P. and Hunter, T. (2001). *Nature* 411:

# Material Safety Data Sheet

## Anti-Phosphoserine: HRP (Polyclonal Antibody) SPC-151

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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>
Sodium Azide	26628-22-8	0.01

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### Physical Data

This product consists of rabbit antiserum in PBS containing 0.01% azide in 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.

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