



## Affinity-Purified Rabbit Anti-phospho-MSK1 (S212) Antibody

Specificity: Mouse phospho-MSK1 (S212)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

**Background:**

Serine/threonine kinase required for the mitogen or stress-induced phosphorylation of the transcription factors CREB (cAMP response element-binding protein) and ATF1 (activating transcription factor-1). Essential role in the control of RELA transcriptional activity in response to TNF. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Mediates the mitogen- and stress-induced phosphorylation of histone H3 and high mobility group protein 14 (HMG-14).

**Other Name:** Nuclear mitogen- and stress-activated protein kinase 1

**Specificity:**

Mouse: Positive

**Application :** For western blot analysis, an antibody concentration of 1 µg/ml is recommended

ELISA	Positive
Western blotting	Positive 1 mg/ml
Immunohistochemistry	Positive
Immunoprecipitation	Positive
Flow cytometry	Positive

**Isotype:** Rabbit IgG

**Description:** This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding the phosphorylation sites.

**Storage:** Upon reconstitution, maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C to -70°C. Lyophilized samples are stable for twelve months from the date of receipt when stored at -20°C to -70°C

**Format:** Purified rabbit monoclonal antibody supplied in PBS with 0.02% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low salt and neutralized immediately, followed by dialysis against PBS.

**Precautions:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**References:**

1. [Arthur J.S.C.](#); "MSK1 activity is controlled by multiple phosphorylation sites."; *Biochem. J.* 387:507-517(2005).
2. [Parvin J.D.](#); "Phosphorylation of histone H2A inhibits transcription on chromatin templates."; *J. Biol. Chem.* 279:21866-21872(2004).
3. [Arthur J.S.](#); "MSK2 and MSK1 mediate the mitogen- and stress-induced phosphorylation of histone H3 and HMG-14."; *EMBO J.* 22:2788-2797(2003).