



Affinity-Purified Rabbit Anti-phospho-RSK3 (S218) Antibody

Specificity: Mouse phospho-RSK3 (S218)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

Background:

Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB. Activated by multiple phosphorylations on threonine and serine residues. Forms a complex with either ERK1 or ERK2 in quiescent cells. Transiently dissociates following mitogenic stimulation.

Other Name: Ribosomal protein S6 kinase 3

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 phospho 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. [Blenis J.](#); "Phosphorylation of p90 ribosomal S6 kinase (RSK) regulates extracellular signal-regulated kinase docking and RSK activity." *Mol. Cell. Biol.* **23**:4796-4804(2003).
2. [Cohen P.](#); "Identification of regulatory phosphorylation sites in mitogen-activated protein kinase (MAPK)-activated protein kinase-1a/p90rsk that are inducible by MAPK."; *J. Biol. Chem.* **273**:1496-1505(1998).
3. [Alessi D.R.](#); "Mitogen- and stress-activated protein kinase-1 (MSK1) is directly activated by MAPK and SAPK2/p38, and may mediate the subsequent activation of CREB."; *EMBO J.* **17**:4426-4441(1998).