

**MSK2 (phospho Thr568) Polyclonal Antibody**  
**Catalog # AP67724****Specification****MSK2 (phospho Thr568) Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">O75676</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

**MSK2 (phospho Thr568) Polyclonal Antibody - Additional Information****Gene ID** 8986**Other Names**

RPS6KA4; MSK2; Ribosomal protein S6 kinase alpha-4; S6K-alpha-4; 90 kDa ribosomal protein S6 kinase 4; Nuclear mitogen- and stress-activated protein kinase 2; Ribosomal protein kinase B; RSKB

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.  
IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**MSK2 (phospho Thr568) Polyclonal Antibody - Protein Information****Name** RPS6KA4**Synonyms** MSK2**Function**

Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the transcription factor RELA, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser- 28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMGN1/HMG14). In lipopolysaccharide-stimulated primary

macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors.

#### Cellular Location

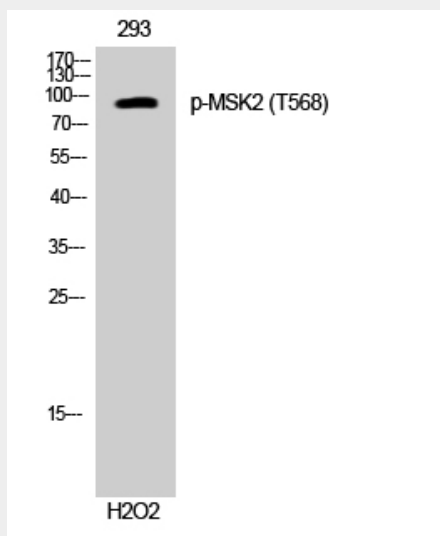
Nucleus

### MSK2 (phospho Thr568) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MSK2 (phospho Thr568) Polyclonal Antibody - Images



Western Blot analysis of 293 cells using Phospho-MSK2 (T568) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

### MSK2 (phospho Thr568) Polyclonal Antibody - Background

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phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMGN1/HMG14). In lipopolysaccharide- stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors.