

Datasheet for ABIN7180247  
**anti-MSK1 antibody (C-Term)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µL
Target:	MSK1 (RPS6KA5)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Synthesized peptide derived from C-terminal of Human SHP-1.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Target Details

Target:	MSK1 (RPS6KA5)
Alternative Name:	RPS6KA5 ( <a href="#">RPS6KA5 Products</a> )
Background:	Background: 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 factors RELA, STAT3 and ETV1/ER81, 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 and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression. In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress. In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional potential. Phosphorylates ETV1/ER81 at 'Ser-191' and 'Ser-216', and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. 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. Plays a role in neuronal cell death by mediating the downstream effects of excitotoxic injury.

Yi T., Mol. Cell. Biol. 12:836-846(1992).

Shen S.H., Nature 352:736-739(1991).

Plutzky J., Proc. Natl. Acad. Sci. U.S.A. 89:1123-1127(1992).

Aliases: 90 kDa ribosomal protein S6 kinase 5 antibody, EC 2.7.11.1 antibody, KS6A5\_HUMAN antibody, MGC1911 antibody, Mitogen and stress activated protein kinase 1 antibody, MSPK1 antibody, Nuclear Mitogen And Stress Activated Protein Kinase 1 antibody, Nuclear mitogen- and stress-activated protein kinase 1 antibody, Ribosomal protein S6 kinase 90kD polypeptide 5 antibody, Ribosomal protein S6 kinase 90 kDa antibody, Ribosomal protein S6 kinase 90 kDa polypeptide 5 antibody, Ribosomal Protein S6 Kinase Alpha 5 antibody, Ribosomal protein S6 kinase alpha-5 antibody, RLPK antibody, RPS6KA5 antibody, RSK Like Protein Kinase antibody, RSK-like protein kinase antibody, RSKL antibody, S6K alpha 5 antibody, S6K-alpha-5 antibody

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UniProt: [O75582](#)

## Target Details

Pathways: [MAPK Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

## Application Details

Application Notes: WB:1:500-1:3000,

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

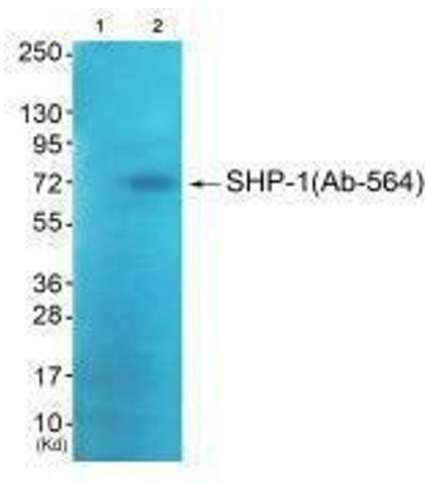
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

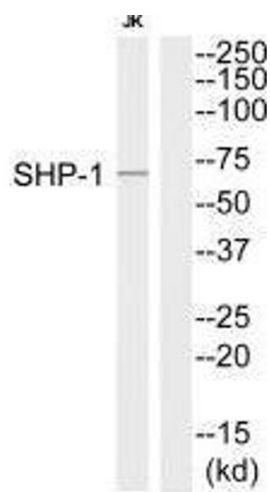
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts from JK cells (Lane 2), using SHP-1 (Ab-564) antibody. The lane on the left is treated with synthesized peptide.



Western Blotting

**Image 2.** Western blot analysis of extracts from Jurkat cells, using SHP-1 (Ab-564) antibody.