

## MSK1 (phospho Ser376) rabbit pAb

## Cat No.:ES1444

For research use only

## Overview

Product Name	MSK1 (phospho Ser376) rabbit pAb
Host species	Rabbit
Applications	WB;IHC
Species Cross-Reactivity	Human;Mouse
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300
Immunogen	The antiserum was produced against synthesized
	peptide derived from human MSK1 around the
	phosphorylation site of Ser376. AA range:343-392
Specificity	Phospho-MSK1 (S376) Polyclonal Antibody detects
	endogenous levels of MSK1 protein only when
	phosphorylated at S376.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Ribosomal protein S6 kinase alpha-5
Gene Name	RPS6KA5
Cellular localization	Nucleus. Cytoplasm. Predominantly nuclear.
	Exported into cytoplasm in response to
	glucocorticoid.
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	90kD
Human Gene ID	9252
Human Swiss-Prot Number	075582
Alternative Names	RPS6KA5; MSK1; Ribosomal protein S6 kinase
	alpha-5; S6K-alpha-5; 90 kDa ribosomal protein S6
	kinase 5; Nuclear mitogen- and stress-activated
	protein kinase 1; RSK-like protein kinase; RSKL
Background	catalytic activity:ATP + a protein = ADP + a
	phosphoprotein.,cofactor:Magnesium.,enzyme



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regulation: Appears to be activated by multiple phosphorylations on threonine and serine residues. ERK1/2 and MAPK14/p38-alpha may play a role in this process., function: 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. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and epidemal growth-factor (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 14 (HMG-14)., miscellaneous: Enzyme activity requires the presence of both kinase domains., PTM:Ser-376 and Thr-581 phosphorylation is required for kinase activity. Ser-376 and Ser-212 are autophosphorylated by the C-terminal kinase domain, and their phosphorylation is essential for the catalytic activity of the N-terminal kinase domain., similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily., similarity: Contains 1 AGC-kinase C-terminal domain., similarity: Contains 2 protein kinase domains., subcellular location: Predominantly nuclear. Partially cytoplasmic., subunit: Forms a complex with either ERK1 or ERK2 in guiescent cells which transiently dissociates following mitogenic stimulation. Also associates with MAPK14/p38-alpha. Activated RPS6KA5 associates with and phosphorylates the NF-kappa-B p65 subunit RELA., tissue specificity: Widely expressed with high levels in heart, brain and placenta. Less abundant in lung, kidney and liver.,



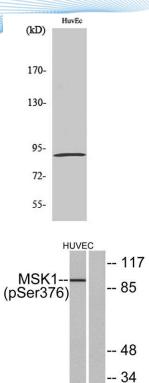
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Western Blot analysis of various cells using Phospho-MSK1 (S376) Polyclonal Antibody diluted at 1:1000

Western blot analysis of lysates from HUVEC cells treated with PMA 125ng/ml 30', using MSK1 (Phospho-Ser376) Antibody. The lane on the right is blocked with the phospho peptide.



-- 26 -- 19 (kD)

> Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).



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