

## Anti-Phospho-RPS6KA5 (Thr581) Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Actual: 90 kDa.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Applications

Application:	WB,IHC-P,ICC/IF,ELISA
Recommended	WB: 1:500-2000; IHC-P: 1:100-300; ICC/IF: 1:200-1000; ELISA: 1:40000

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthesized phosphopeptide: human MSK1 around the phosphorylation site of Thr581. AA range:551-600
Antigen Species:	human
Uniprot ID:	O75582
Synonyms:	EC 2.7.11.1;MSPK1;90 kDa ribosomal protein S6 kinase 5;Phospho-RPS6KA5 (T581);RSKL;RLPK;S6K-alpha-5;Ribosomal protein S6 kinase alpha-5;RSK Like Protein Kinase;Nuclear Mitogen And Stress Activated Protein Kinase 1;p-RPS6KA5 (T581);RSK-like protein kinase;S6K alpha 5;Mitogen and stress activated protein kinase 1;KS6A5_HUMAN;Ribosomal Protein S6 Kinase Alpha 5;Ribosomal protein S6 kinase 90kD polypeptide 5;p-RPS6KA5 (Thr581);MGC1911;RPS6KA5 (p-T581);RPS6KA5 (p-Thr581)

## Research Background

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme 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 epidermal 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.,

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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 quiescent 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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