



# Anti-RPS6KA4 polyclonal antibody (DPAB2618RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit polyclonal to human mitogen- and stress-activated protein kinases.
<b>Antigen Description</b>	Mitogen- and stress-activated protein kinases (MSK2) is nuclear kinase that act downstream of mitogen-activated protein/extracellular signal-regulated kinase pathways. It contains two kinase domains in the N-terminal and C-terminal region, respectively. MSK2 is activated in response to mitogenic stimuli via Erk1/2MAPK pathway and also by stress stimuli via p38MAPK pathway. Signals from mitogens and cellular stresses are involved in many functions including cell proliferation, differentiation, and survival through the phosphorylation of cyclic AMP response element-binding protein (CREB) at Ser133 which is catalyzed by MSK2. Recently, MSK2 has been shown to be required for stress-induced phosphorylation of histone H3-Ser and transcriptional activation of several immediate early genes.
<b>Immunogen</b>	Synthetic peptide.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC-P
<b>Positive Control</b>	293T cells
<b>Format</b>	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
<b>Size</b>	100 µl
<b>Preservative</b>	0.03% Sodium Azide

**Storage**

Store for 1 year at -20 °C from date of shipment.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">RPS6KA4 ribosomal protein S6 kinase, 90kDa, polypeptide 4 [ Homo sapiens ]</a>
<b>Synonyms</b>	RPS6KA4; ribosomal protein S6 kinase, 90kDa, polypeptide 4; ribosomal protein S6 kinase alpha-4; MSK2; RSK B; 90 kDa ribosomal protein S6 kinase 4; EC 2.7.11.1; Mitogen and stress activated protein kinase 2; Nuclear mitogen and stress activated protein kinase 2; Ribosomal protein kinase B; Ribosomal protein S6 kinase 90kD polypeptide 4; Ribosomal protein S6 kinase 90kDa polypeptide 4; Ribosomal protein S6 kinase alpha 4; RSKB; RSKB; S6K-alpha-4; OTTHUMP00000043253; OTTHUMP00000230475; OTTHUMP00000230477; ribosomal protein kinase B; ribosomal protein S6 kinase alpha 4; 90 kDa ribosomal protein S6 kinase 4; mitogen- and stress-activated protein kinase; RSK-B
<b>Entrez Gene ID</b>	<a href="#">8986</a>
<b>Protein Refseq</b>	<a href="#">NP_001006945</a>
<b>UniProt ID</b>	<a href="#">Q75676</a>
<b>Chromosome Location</b>	11q11-q13
<b>Pathway</b>	Axon guidance; ErbB1 downstream signaling; Insulin Signaling; L1CAM interactions; MAPK signaling pathway; Neurotrophin signaling pathway; Recycling pathway of L1; Signal transduction by L1; Signaling mediated by p38-alpha and p38-beta.
<b>Function</b>	ATP binding; magnesium ion binding; mitogen-activated protein kinase p38 binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; ribosomal protein S6 kinase activity