

## Product datasheet for **TP510573**

### **Rps6ka4 (NM\_019924) Mouse Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse ribosomal protein S6 kinase, polypeptide 4 (Rps6ka4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR210573 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGDEDEDEGCVELQITEANLTGHEEKVSVENFALLKVLGTGAYGKVFVLRKTGGHDAGKLYAMKVLKRA  
ALVQRAKTQEHTRTERSVLELVRQAPFLVTLHYAFQTDAKLHLILDYVSGGEMFTHLYQRQYFKEAEVRV  
YGGEIVLAEHLHKLGIYRDLKLENVLLDSEGHIVLTDGFLSKEFLTEEKERTFSCGTIEMAPEIIR  
SKAGHGKAVDWWSLGILLFELLTGASPFTLEGERNTQAEVSRRLKCSPPFPLRIGPVAQDLLQRLLCKD  
PKKRLGAGPQGAQEVKSHPPFQGLDWVALAARKIPAPFRPQIRSELVGNFAEEFTRLEPVYPPAGSPPP  
GDPRIFQGYSFVAPSILFDHNNVAMADVLQAPGAGYRPGRAAVARSAMMQDSPFFQYELDLREPALGQG  
SFSVCRRCRQRQSGQEFVAVKILSRRLLEENTQREVAALRLCQSHPNVNLHEVLHDQLHTYLVLELLRGGE  
LLEHIRKKRLFSESEASQILRSLVSAVFMHEEAGVHRDLKPENILYADDTPGAPVKIIDFGFARLRPQ  
SPAEPMQTPCFTLQYAAPELLAQQGYDESCDLWSLGVILYMMMLSGQVPFQASGQGGQSAAEIMCKIRE  
GRFSLDGEAWQGVSEEAKELVRLTVDPAKRLKLEGLRSSWLQDGSARSSPPLRTPDVLLESSGPAVRS  
GLNATFMAFNRGKREGFFLKSVENAPLAKRRKQKLRSAASRRGSPVPASSGRLPASAAKGTTTRRANGPL  
SPS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	85.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_064308</a>
<b>Locus ID:</b>	56613
<b>UniProt ID:</b>	<a href="#">Q9Z2B9</a>
<b>RefSeq Size:</b>	3152
<b>Cytogenetics:</b>	19 A
<b>RefSeq ORF:</b>	2322
<b>Synonyms:</b>	90kDa; 1110069D02Rik; A1848992; mMSK2; Msk2
<b>Summary:</b>	<p>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 (By similarity).[UniProtKB/Swiss-Prot Function]</p>