

Product datasheet for TP510573

Rps6ka4 (NM_019924) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ribosomal protein S6 kinase, polypeptide 4 (Rps6ka4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210573 protein sequence Red =Cloning site Green =Tags(s) MGDEDEDEGCVELQITEANLTGHEEKVSVENFALLKVLGTGAYGKVFLVRKTGGHDAGKLYAMKVLRLKA ALVQRAKTQEHTRTERSVLELVRQAPFLVTLHYAFQTDAKLHLILDYVSGGEMFTHLYQRQYFKEAEVRV YGGEIVLALHLHLKLGIIYRDLKLENVLLDSEGHIVLTDGFLSKEFLTEEKERTFSFCGTIEYMAPEIIR SKAGHGKAVDWWSLGILLFELLTGASPFTLEGERNTQAEVSRRLKCSPPFPLRIGPVAQDLLQRLCKD PKKRLGAGPQGAQEVKSHPFQGLDWVALAARKIPAPFRPQIRSELDVGNFAEEFTRLEPVYPPAGSPPP GDPRIQGYGYSFVAPSILFDHNNAVMADVLQAPGAGYRPGRAAVARSAMMQDSPFFQYELDLREPALGQ G SFSVCRRRCRQRQSGQEFQFAVKILSRRLEENTQREVAALRLCQSHPNVNLHEVLHDQLHTYLVLELLRGGE LLEHIRKKRLFSESEASQILRSLVSAVSFMHEEAGVHRDLKPENILYADDTPGAPVKIIDFGFARLRPQ SPAEPMQTPCFTLQYAAPELLAQQGYDESCDLWSLGVILYMMLSGQVPFQASGQGGQSQA AEIMCKIR E GRFSLDGEAWQGVSEEAKELVRGLLTVDPAKRLKLEGLRSSSWLQDGSARSSPPLRTPDVLESSGPAVR GLNATFMAFNRGKREGFFLKSVENAPLAKRRKQKLRSAAASRRGSPVPASSGRLPASAAKGTTTRRANGPL SPS TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	85.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol


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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_064308
Locus ID:	56613
UniProt ID:	Q9Z2B9
RefSeq Size:	3152
Cytogenetics:	19 A
RefSeq ORF:	2319
Synonyms:	90kDa; 1110069D02Rik; AI848992; mMSK2; Msk2
Summary:	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 (HMG1/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]