

Recombinant Mouse Rps6ka4 Protein, Myc/DDK-tagged

Cat. No. Rps6ka4-5610M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ribosomal protein S6 kinase, polypeptide 4 (Rps6ka4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.

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Molecular Mass	85.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rps6ka4 ribosomal protein S6 kinase, polypeptide 4 [Mus musculus (house mouse)]
Official Symbol	Rps6ka4
Synonyms	RPS6KA4; ribosomal protein S6 kinase, polypeptide 4; ribosomal protein S6 kinase alpha-4; RLSK; S6K-alpha-4; RSK-like protein kinase; 90 kDa ribosomal protein S6 kinase 4; mitogen- and stress-activated protein kinase-2; ribosomal protein S6 kinase, 90kD, polypeptide 4; nuclear mitogen- and stress-activated protein kinase 2; Msk2; 90kDa; mMSK2; AI848992; 1110069D02Rik
Gene ID	56613
mRNA Refseq	NM_019924
Protein Refseq	NP_064308

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UniProt ID

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