

Recombinant Human RPS6KA5 Protein (E2-A802), Tag Free

Cat. No. RPS6KA5-1160H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human GG-MSK1(E2-A802 end) Protein was expressed in Insect cell. |
| Species | Human |
| Source | Insect Cells |
| ProteinLength | E2-A802 |
| Description | <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 factors RELA, STAT3 and ETV1/ER81, 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 and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression. In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress. In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional potential. Phosphorylates ETV1/ER81 at 'Ser-191' and 'Ser-216', and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics,</p> |

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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. Plays a role in neuronal cell death by mediating the downstream effects of excitotoxic injury. Phosphorylates TRIM7 at 'Ser-107' in response to growth factor signaling via the MEK/ERK pathway, thereby stimulating its ubiquitin ligase activity.

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| Form | Liquid |
| Endotoxin | < 0.01 EU per µg of the protein |
| Purity | 90% |
| Stability | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. |
| Storage | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| Storage Buffer | Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol |
| Shipping | It is shipped out with blue ice. |

GENE INFORMATION

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| Gene Name | RPS6KA5 ribosomal protein S6 kinase, 90kDa, polypeptide 5 [Homo sapiens |
|------------------|--|

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| | (human)] |
| Official Symbol | RPS6KA5 |
| Synonyms | RPS6KA5; ribosomal protein S6 kinase, 90kDa, polypeptide 5; ribosomal protein S6 kinase, 90kD, polypeptide 5; ribosomal protein S6 kinase alpha-5; MSK1; RLPK; RSKL; S6K-alpha-5; RSK-like protein kinase; 90 kDa ribosomal protein S6 kinase 5; nuclear mitogen- and stress-activated protein kinase 1; MSPK1; MGC1911; |
| Gene ID | 9252 |
| mRNA Refseq | NM_004755 |
| Protein Refseq | NP_004746 |
| MIM | 603607 |
| UniProt ID | O75582 |

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