Recombinant Human RPS6KA3

Cat. No. RPS6KA3-30417TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Rsk 2 / MAPKAP Kinase 1b protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 112 kDa.
Species	Human
Description	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Mutations in this gene have been associated with Coffin-Lowry syndrome (CLS).
Tissue specificity	Expressed in many tissues, highest levels in skeletal muscle.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6

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Similarities	kinase subfamily.Contains 1 AGC-kinase C-terminal domain.Contains 2 protein kinase domains.
Full Length	Full L.

GENE INFORMATION

Gene Name	RPS6KA3 ribosomal protein S6 kinase, 90kDa, polypeptide 3 [Homo sapiens]
Official Symbol	RPS6KA3
Synonyms	RPS6KA3; ribosomal protein S6 kinase, 90kDa, polypeptide 3; CLS, Coffin Lowry syndrome , mental retardation, X linked 19 , MRX19, ribosomal protein S6 kinase, 90kD, polypeptide 3; ribosomal protein S6 kinase alpha-3; HU 3; RSK; RSK2;
Gene ID	6197
mRNA Refseq	NM_004586
Protein Refseq	NP_004577
MIM	300075
Uniprot ID	P51812
Chromosome Location	Xp22.2-p22.1
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Axon guidance, organism-specific biosystem; CREB phosphorylation, organism-specific

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	biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem;
Function	ATP binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; magnesium ion binding; nucleotide binding; protein kinase activity;

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