Active Recombinant Rat Rps6kb1(T412E), His-tagged

Cat. No. Rps6kb1-143R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Rps6kb1 (amino acid residues 1-421), with N-terminal 6His, was expressed in insect cells. p70 S6 kinase has a T412E mutation to mimic the activation of the enzyme through phosphorylation of Thr412 by PDK2.
Species	Rat
Source	Insect Cells
ProteinLength	1-421 a.a.
Description	Protein ubiquitylation and protein phosphorylation are the two major mechanisms that regulate the functions of proteins in eukaryotic cells.
Form	50 mM Tris/HCl pH7.5, 0.1mM EGTA, 150 mM NaCl, 0.1% ?-Mercaptoethanol, 270 mM sucrose, 0.03% Brij-35, 1 mM Benzamidine, 0.2 mM PMSF.
Bio-activity	154.2 Units/mg (169.6 Units/ml)Substrate: CROSStide (GRPRTSSFAEG)
Molecular Mass	~48.6 kDa
Purity	>95% by InstantBlue™ SDS-PAGE
Unit Definition	1 Unit = 1 nmole of phosphate incorporated into the substrate in 1 minute.
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.

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Concentration	1.1 mg/ml

GENE INFORMATION

Gene Name	Rps6kb1 ribosomal protein S6 kinase, polypeptide 1 [Rattus norvegicus]
Official Symbol	Rps6kb1
Synonyms	RPS6KB1; ribosomal protein S6 kinase, polypeptide 1; ribosomal protein S6 kinase beta-1; S6K; S6K1; P70S6K; P70S6K1; p70 S6KA; S6 kinase; p70-S6K 1; S6K-beta-1; p70 S6K-alpha; p70(S6K)-alpha; p70 S6 kinase alpha; p70 ribosomal S6 kinase alpha; ribosomal protein S6 kinase I; 70 kDa ribosomal protein S6 kinase 1; ribosomal protein S6 kinase, 70kDa, polypeptide 1;
Gene ID	83840
mRNA Refseq	NM_031985
Protein Refseq	NP_114191
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;
Function	ATP binding; ATP binding; nucleotide binding; peptide binding; protein binding; protein kinase activity; protein kinase activity; protein kinase activity; ribosomal protein S6 kinase activity; transferase activity, transferring phosphorus-containing groups;

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