



Recombinant Rat Ribosomal protein S6 kinase beta-1 (Rps6kb1)

Product Code	CSB-MP020470RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P67999
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MRRRRRRRDGF YPAPDFRHRE AEDMAGVFDI DLDQPEDAGS EDELEEGGQL NESMDHGGVG PYELGMEHCE KFEISETSVN RGPEKIRPEC FELLRVLGKG GYGKVFQVRK VTGANTGKIF AMKVLKKAMI VRNAKDTAHT KAERNILEEV KHPFIVDLIY AFQTGGKLYL ILEYLSSGGEL FMQLEREGIF MEDTACFYLA EISMALGHLH QKGIIYRDLK PENIMLNHQG HVKLTDFGLC KESIHGDTVHT HFCGTIEYM APEILMRSGH NRAVDWWSLG ALMYDMLTGA PPFTGENRKK TIDKILKCKL NLPPYLTQEA RDLLKLLKR NAASRLGAGP GDAGEVQAHP FFRHINWEEL LARKVEPPFK PLLQSEEDVS QFDSKFTRQT PVDSPDDSTL SESANQVFLG FTYVAPSVLE SVKEKFSFEP KIRSPRRFIG SPRTPVSPVK FSPGDFWGRG ASASTANPQT PVEYPMETSG IEQMDVTTSG EASAPLPIRQ PNSGPYKKQA FPMISKRPEH LRMNL
Source	Mammalian cell
Target Names	Rps6kb1
Protein Names	Recommended name: Ribosomal protein S6 kinase beta-1 Short name= S6K-beta-1 Short name= S6K1 EC= 2.7.11.1 Alternative name(s): 70 kDa ribosomal protein S6 kinase 1 Short name= P70S6K1 Short name= p70-S6K 1 Ri
Expression Region	1-525
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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 several residues of the S6 ribosomal protein. The kinase activity of this protein leads to an increase in protein synthesis and cell proliferation. Amplification of the region of DNA encoding this gene and overexpression of this kinase are seen in some breast cancer cell lines. Alternate translational start sites have been described and alternate transcriptional splice variants have been observed but have not been thoroughly characterized.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.