



Recombinant Rat Serine/threonine-protein kinase PAK 1 (Pak1)

Product Code	CSB-EP017404RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P35465
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<pre>SNNGLDVQD KPPAPPMRNT STMIGAGSKD PGTLNHGSKP LPPNPEEKKK KDRFYRSILA GDKTNKKKEK ERPEISLPSD FEHTIHVGFD AVTGEFTGMP EQWARLLQTS NITKSEQKKN PQAVLDVLEF YNSKKTNSQ KYMSFTDKSA EDYNSSNTLN VKTVSETPAV PPVSEDEDDD DDATPPPVIA PRPEHTKSVY TRSVIEPLPV TPTRDVATSP ISPTENNTTP PDALTRNTEK QKKKPKMSDE EILEKLRSIV SVGDPKKKYT RFEKIGQGAS GTVYTAMDVA TGQEVAIKQM NLQQQPKKEL IINEILVMRE NKNPNIVNYL DSYLVGDELW VVMEYLAGGS LTDVVTETCM DEGQIAAVCR ECLQALEFLH SNQVIHRDIK SDNILLGMDG SVKLTDFGFC AQITPEQSKR STMVGTPTYWM APEVVTRKAY GPKVDIWSLG IMAIEMIEGE PPYLNENPLR ALYLIATNGT PELQNPEKLS AIFRDFLNRC LEMDVEKRGs AKELLQHQL KIAPLSSLT PLIAAAKEAT KNNH</pre>
Source	E.coli
Target Names	Pak1
Protein Names	Recommended name: Serine/threonine-protein kinase PAK 1 EC= 2.7.11.1 Alternative name(s): Alpha-PAK Protein kinase MUK2 p21-activated kinase 1 Short name= PAK-1 p68-PAK
Expression Region	2-544
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 of Mature Protein
Target Details	PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology. Alternativelt spliced transcript variants encoding different isoforms have been found for this gene.
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.