



Recombinant Rat Serine/threonine-protein kinase PAK 3 (Pak3)

Product Code	CSB-YP717286RA
Abbreviation	Pak3
Storage	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.
Uniprot No.	Q62829
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MSDSLDNEEK PPAPPLRMNS NNRDSSALNH SSKPLMAPE EKNKKARLRS IFPGGGDKTN KKKEKERPEI SLPSDFEHTI HVGFDVAVTGE FTGIPEQWAR LLQTSNITKL EQKKNPQAVL DVLKFYDSKE TVNNQKYMSF TSGDKSAHG IAAHQSNTKT ASEPPLAPPV SEEEDEEEEE EEDDNEPPPV IAPRPEHTKS IYTRSVVESI ASPAAPNKEA TPPSAENANS STLYRNTDRQ RKKSKMTDEE ILEKLR SIVS VGDPKKKYTR FEKIGQGASG TVYTALDIAT GQEVAIKQMN LQQQPKKELI INEILVMREN KNP NIVNYLD SYLVGDELWV VMEYLAGGSL TDVVTETCMD EGQIAAVCRE CLQALDFLHS NQVIHRDIKS DNILLGMDGS VKLTDFGFCA QITPEQSKRS TMVGTPYWMA PEVVTRKAYG PKVDIWSLGI MAIEMVEGEP PYLNENPLRA LYLIATNGTP ELQNERLSA VFRDFLNRCL EMDVDRRGS KELLQHPFLK LAKPLSSLTP LILAAKEAIK NSSR
Source	Yeast
Target Names	Pak3
Protein Names	Recommended name: Serine/threonine-protein kinase PAK 3 EC= 2.7.11.1 Alternative name(s): Beta-PAK p21-activated kinase 3 Short name= PAK-3 p65-PAK
Expression Region	1-544
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 protein
Target Details	PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. This protein forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. This



protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of non-syndromic mental retardation X-linked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47). Alternatively spliced transcript variants encoding different isoforms have been identified.

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.