Serine/Threonine-Protein Kinase PAK 2 (PAK2) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase PAK 2 (PAK2), Recombinant Protein
Full Product Name	Recombinant Rabbit Serine/threonine-protein kinase PAK 2 (PAK2), partial
Product Gene Name	PAK2 recombinant protein
Product Synonym Gene Name	PAK2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	58,028 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q29502
Species	Rabbit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PAK2 recombinant protein	The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. The PAK proteins are a family of serine threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. This protein is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell.
Other Notes	Small volumes of PAK2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAK2 purchase	MBS1332923 is a recombinant protein targeting PAK2. Also known as Recombinant Rabbit Serine/threonine-protein kinase PAK 2 (PAK2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAK2. It may not necessarily be applicable to this product.

NCBI GI #	130503780
NCBI GeneID	100009535
NCBI Accession #	NP_001076225.1
UniProt Primary Accession #	Q29502
UniProt Related Accession #	Q29502
GenBank Nucleotide #	NM_001082756.1

NCBI Official Full Name	serine/threonine-protein kinase PAK 2
NCBI Official Symbol	PAK2
NCBI Official Synonym Symbols	PAKI; Pak3
UniProt Protein Name	Serine/threonine-protein kinase PAK 2
UniProt Synonym Protein Names	Gamma-PAK; p21-activated kinase 2; PAK-2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PAK2
UniProt Synonym Gene Names	PAK-2; PAKI
NCBI Protein Information	serine/threonine-protein kinase PAK 2
UniProt Comments for PAK2	Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell motility, cell cycle progression, apoptosis or proliferation. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Full-length PAK2 stimulates cell survival and cell growth. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Phosphorylates JUN and plays an important role in EGF-induced cell proliferation. Phosphorylates many other substrates including histone H4 to promote assembly of H3.3 and H4 into nucleosomes, BAD, ribosomal protein S6, or MBP. Additionally, associates with ARHGEF7 and GIT1 to perform kinase-independent functions such as spindle orientation control during mitosis. On the other hand, apoptotic stimuli such as DNA damage lead to caspase-mediated cleavage of PAK2, generating PAK-2p34, an active p34 fragment that translocates to the nucleus and promotes cellular apoptosis involving the JNK signaling pathway. Caspase-activated PAK2 phosphorylates MKNK1 and reduces cellular translation ().
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