PAK2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PAK2, Blocking Peptide
Full Product Name	PAK2 Blocking Peptide
Product Gene Name	PAK2 blocking peptide
Product Synonym Names	C-t-PAK2; CB422; EC 2.7.11.1; Gamma PAK; Gamma-PAK; hPAK65; Kinase; p21 (CDKN1A) activated kinase 2; p21 (CDKN1A)-activated kinase 2a; p21 activated kinase 2; p21 protein (Cdc42/Rac)-activated kinase 2; p21 protein Cdc42 Rac activated kinase 2; p21-activated kinase 2; p21-activated kinase, 65-KD; p21-activated protein kinase I; p21CDKN1A activated kinase 2; p27; p34; p58; p65PAK; PAK 2; PAK-2; PAK-2p34; Pak2; PAK2_HUMAN; PAK65; PAKgamma; S6 H4 kinase; S6/H4 kinase; Serine threonine protein kinase PAK 2; Serine/threonine protein kinase PAK 2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Molecular Weight	58,043 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (196466728..196559518). Location: 3q29
OMIM	605022
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PAK2 blocking peptide	Blocking/Control
Related Product Information for PAK2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PAK2 blocking peptide 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	MBS9619908 is a blocking peptide targeting PAK2.

ADDITIONAL DETAILS

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

NCBI GI #	32483399
NCBI GeneID	5062
NCBI Accession #	NP_002568.2

UniProt Primary Accession #	Q13177
UniProt Secondary Accession #	Q13154; Q6ISC3
UniProt Related Accession #	Q13177
GenBank Nucleotide #	NM_002577.4
NCBI Official Full Name	serine/threonine-protein kinase PAK 2
NCBI Official Synonym Full Names	p21 protein (Cdc42/Rac)-activated kinase 2
NCBI Official Symbol	PAK2
NCBI Official Synonym Symbols	PAK65; PAKgamma
UniProt Protein Name	Serine/threonine-protein kinase PAK 2
UniProt Synonym Protein Names	Gamma-PAK; PAK65; S6/H4 kinase; p21-activated kinase 2; PAK-2; p58Cleaved into the following 2 chains:PAK-2p27; p27PAK-2p34; p34; Alternative name(s):; C-t-PAK2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PAK2
UniProt Synonym Gene Names	PAK-2; p27; p34
UniProt Entry Name	PAK2_HUMAN
NCBI Protein Information	serine/threonine-protein kinase PAK 2; p58; PAK-2; gamma-PAK; S6/H4 kinase; p21-activated kinase 2; p21 (CDKN1A)-activated kinase 2
NCBI Summary for PAK2	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. The protein encoded by this gene is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell. [provided by RefSeq, Jul 2008]
UniProt Comments for PAK2	PAK2: a protein kinase of the STE20 family. Critical effector linking RhoGTPases to cytoskeleton reorganization and nuclear signaling. Activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell. Protein type: Protein kinase, STE; Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family; PAKA subfamily Chromosomal Location of Human Ortholog: 3q29 Cellular Component: nucleoplasm; perinuclear region of cytoplasm; cytoplasm; plasma membrane; cytosol Molecular Function: protein serine/threonine kinase activity; identical protein binding; protein binding; protein tyrosine kinase activator activity; protein kinase binding; ATP binding; protein kinase activity; receptor signaling protein serine/threonine kinase activity Biological Process: axon guidance; viral reproduction; apoptosis; protein amino acid autophosphorylation; signal transduction; protein amino acid phosphorylation; T cell receptor signaling pathway; regulation of defense response to virus by virus; regulation of apoptosis; peptidyl-serine phosphorylation; positive regulation of peptidyl-tyrosine phosphorylation; regulation of growth; T cell costimulation; innate immune response; negative regulation of protein kinase activity; mitotic cell cycle; vascular endothelial growth factor receptor signaling pathway; phosphorylation; negative regulation of apoptosis; cell structure disassembly during apoptosis
Research Articles on PAK2	**1.** PAK2 negatively modulate TGF-beta signaling by attenuating the receptor-Smad interaction and thus Smad activation
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