Phospho-PAK1 (Ser199) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PAK1, Blocking Peptide
Full Product Name	Phospho-PAK1 (Ser199) Blocking Peptide
Product Gene Name	PAK1 blocking peptide
Product Synonym Names	ADRB2; Alpha PAK; Alpha-PAK; MGC130000; MGC130001; p21 activated kinase 1; p21 protein (Cdc42/Rac) activated kinase 1; p21-activated kinase 1; p21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related); p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast); p65 PAK; p65-PAK; P68-PAK; PAK alpha; PAK-1; Pak1; PAK1_HUMAN; Paka; PAKalpha; Protein kinase MUK2; Rac/p21-activated kinase; Serine/threonine-protein kinase PAK 1; STE20 homolog yeast
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.
Antibody/Peptide Pairs	PAK1 (Ser199) peptide (MBS9615955) is used for blocking the activity of PAK1 (Ser199) antibody (MBS9612674)
Molecular Weight	60,647 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (77033060..77185108, complement). Location: 11q13-q14
OMIM	602590
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 PAK1 blocking peptide	Blocking/Control
Related Product Information for PAK1 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 PAK1 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 PAK1 purchase	MBS9615955 is a blocking peptide targeting PAK1. Also known as Phospho-PAK1 (Ser199) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAK1. It may not necessarily be applicable to this product.

NCBI GI #	190886457
NCBI GeneID	5058

NCBI Accession #	NP_001122092.1
UniProt Primary Accession #	Q13153
UniProt Secondary Accession #	O75561; Q13567; Q32M53; Q32M54; Q86W79
UniProt Related Accession #	Q13153
GenBank Nucleotide #	NM_001128620.1
NCBI Official Full Name	serine/threonine-protein kinase PAK 1 isoform 1
NCBI Official Synonym Full Names	p21 protein (Cdc42/Rac)-activated kinase 1
NCBI Official Symbol	PAK1
NCBI Official Synonym Symbols	PAKalpha
UniProt Protein Name	Serine/threonine-protein kinase PAK 1
UniProt Synonym Protein Names	Alpha-PAK; p21-activated kinase 1; PAK-1; p65-PAK
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PAK1
UniProt Synonym Gene Names	PAK-1
UniProt Entry Name	PAK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase PAK 1; p65-PAK; alpha-PAK; STE20 homolog, yeast; p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related); p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast)
NCBI Summary for PAK1	This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]
UniProt Comments for PAK1	PAK1: a protein kinase of the STE20 family that regulates cell motility and morphology. Critical RhoGTPase effector that regulates cytoskeleton reorganization, the JNK MAPK pathway, and nuclear signaling. Binding of Rac/cdc42 to the PBD of PAK1 causes autophosphorylation and conformational change. Phosphorylated and activated by PDK. Protein type: EC 2.7.11.1; Protein kinase, STE; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family; PAKA subfamily Chromosomal Location of Human Ortholog: 11q13-q14 Cellular Component: Golgi apparatus; nuclear membrane; focal adhesion; protein complex; dendrite; intercellular junction; Z disc; cytosol; filamentous actin; ruffle; growth cone; axon; cytoplasm; plasma membrane Molecular Function: collagen binding; protein serine/threonine kinase activity; protein binding; protein kinase binding; ATP binding; receptor signaling protein serine/threonine kinase activity; protein kinase activity Biological Process: axon guidance; positive regulation of JNK activity; exocytosis; wound healing; apoptosis; protein amino acid autophosphorylation; positive regulation of estrogen receptor signaling pathway; receptor clustering; T cell receptor signaling pathway; protein amino acid phosphorylation; positive regulation of stress fiber formation; ephrin receptor signaling pathway; dendrite development; neuromuscular junction development; MAPKKK cascade; positive regulation of peptidyl-serine phosphorylation; cellular response to insulin stimulus; branching morphogenesis of a tube; actin cytoskeleton reorganization; T cell costimulation; response to hypoxia; innate immune response; positive regulation of protein amino acid phosphorylation; mitotic cell cycle; vascular endothelial growth factor receptor signaling pathway; neurite morphogenesis
Research Articles on PAK1	**1.** analysis of synergistic activation of p21-activated kinase 1 by phosphatidylinositol 4,5-bisphosphate and Rho GTPases

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