PAK2 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PAK2, Blocking Peptide
Full Product Name	PAK2 Peptide - N-terminal region
Product Gene Name	PAK2 blocking peptide
Product Synonym Gene Name	PAK65; PAKgamma
Sequence	Synthetic peptide located within the following region: SVPEEKKPRH KIISIFSGTE KGSKKKEKER PEISPPSDFE HTIHVGFDAV
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PAK2 peptide (MBS3247866) is used for blocking the activity of PAK2 antibody (MBS3223223)
Molecular Weight	57 kDa
OMIM	605022
Product Categories/Family for PAK2 blocking peptide	Peptide
Related Product Information for PAK2 blocking peptide	This is a synthetic peptide designed for use in combination with anti- PAK2 Antibody, made Target Description: 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.
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	MBS3247866 is a blocking peptide targeting PAK2. Also known as PAK2 Peptide - N-terminal region. Reactive in Human.

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 Related Accession #	Q13177
GenBank Nucleotide #	NM_002577.4
NCBI Official Full Name	serine/threonine-protein kinase PAK 2

NCBI Official Synonym Full Names	p21 (RAC1) 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
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.** Overexpression of PAK2 in oral squamous cell carcinomas may be associated with an advanced pathology grade.
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