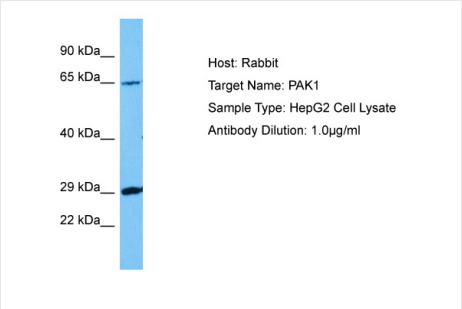
PAK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAK1, Polyclonal Antibody
Full Product Name	PAK1 Antibody - middle region
Product Gene Name	anti-PAK1 antibody
Product Synonym Gene Name	PAKalpha
Immunogen Sequence	Synthetic peptide located within the following region: NTEKQKKKPK MSDEEILEKL RSIVSVGDPK KKYTRFEKIG QGASGTVYTA
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PAK1 peptide (MBS3247727) is used for blocking the activity of PAK1 antibody (MBS3223080)
Molecular Weight	61 kDa
OMIM	602590
3D Structure	ModBase 3D Structure for Q13153
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human PAK1
Product Categories/Family for anti-PAK1 antibody	Polyclonal; Protein Kinases; Cell Adhesion; Chromatin & Nuclear Signaling
Applications Tested/Suitable for anti-PAK1 antibody	Western Blot (WB)
Related Product Information for anti-PAK1 antibody	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.
Other Notes	Small volumes of anti-PAK1 antibody 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	MBS3223080 is an antibody targeting PAK1. Also known as PAK1 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PAK1 antibody
Host: RabbitTarget Name: PAK1Sample Tissue: Human HepG2 Whole Cell lysatesAntibody Dilution: 1ug/ml

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 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 (RAC1) activated kinase 1
NCBI Official Symbol	PAK1
NCBI Official Synonym Symbols	IDDMSSD; 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

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.** PAK1 gene silencing decreases proliferation of MHCC97-H cells, HepG2 cells and cells in xenograft tumor through the p53/p21 pathway.
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