PAK1 ELISA Kit for Human, Mouse, Rat

PRODUCT OVERVIEW

Product Name	PAK1, ELISA Kit
Full Product Name	PAK1 Colorimetric Cell-Based ELISA Kit
Product Gene Name	PAK1 elisa kit
Product Synonym Names	Serine/threonine-protein kinase PAK 1; p21-activated kinase 1; PAK-1; p65-PAK; Alpha-PAK; PAK1
Species Reactivity	Human, Mouse, Rat
Assay Type	Non-Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	One 96-Well Plate
Preparation and Storage	Store at 4 degree C.
Molecular Weight	60647
OMIM	U51120 mRNA
3D Structure	ModBase 3D Structure for Q13153
Detection Method	Colorimetric 450 nm
Product Categories/Family for PAK1 elisa kit	Cell Based ELISA Kit
Related Product Information for PAK1 elisa kit	MBS9500457 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the PAK1, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PAK1. The ELISA analytical biochemical technique of the MBS9500457 kit is based on PAK1 antibody-PAK1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PAK1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PAK1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PAK1 elisa kit 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.

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 (RAC1) 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
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PAK1
UniProt Synonym Gene Names	PAK-1
NCBI Protein Information	serine/threonine-protein kinase PAK 1
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; Kinase, protein; PAKA subfamily; Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family Chromosomal Location of Human Ortholog: 11q13.5-q14.1 Cellular Component: axon; cytoplasm; cytosol; dendrite; filamentous actin; focal adhesion; intercalated disc; intercellular junction; invadopodium; lamellipodium; nuclear membrane; plasma membrane; protein complex; ruffle; Z disc Molecular Function: ATP binding; collagen binding; protein binding; protein kinase activity; protein kinase binding; protein serine/threonine kinase activity; Rac GTPase binding Biological Process: actin cytoskeleton reorganization; activation of protein kinase activity; apoptosis; branching morphogenesis of a tube; cellular response to insulin stimulus; cerebellum development; ephrin receptor signaling pathway; establishment of cell polarity; exocytosis; Fc-epsilon receptor signaling pathway; Fc-gamma receptor signaling pathway involved in phagocytosis; hepatocyte growth factor receptor signaling pathway; MAPK cascade; neuron projection morphogenesis; positive regulation of axon extension; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of fibroblast migration; positive regulation of glucose import in response to insulin stimulus; positive regulation of intracellular estrogen receptor signaling pathway; positive regulation of JUN kinase activity; positive regulation of microtubule polymerization; positive regulation of peptidyl-serine phosphorylation; positive regulation of protein phosphorylation; positive regulation of protein targeting to membrane; positive regulation of stress fiber formation; positive regulation of vascular associated smooth muscle cell migration; positive regulation of vascular smooth muscle cell proliferation; protein amino acid phosphorylation; protein autophosphorylation; regulation of apoptosis; regulation of axonogenesis; regulation of mitotic cell cycle; response to hypoxia; Rho protein signal transduction; stimulatory C-type lectin receptor signaling pathway; T cell costimulation; T cell receptor signaling pathway; wound healing
Research Articles on PAK1	**1.** Our findings offer an insight for the new drug development of PAK1 inhibitor. We also provide a possible explanation for the phenomenon that the application of the chlorhexidine in peritoneal lavage inhibited the development of tumor.

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