

Datasheet for ABIN5711245 PAK1 Protein (AA 1-545, full length) (His-SUMO Tag)



Overview

Image

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Quantity:	100 µg
Target:	PAK1
Protein Characteristics:	full length, AA 1-545
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAK1 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MSNNGLDIQD KPPAPPMRNT STMIGAGSKD AGTLNHGSKP LPPNPEEKKK KDRFYRSILP
	GDKTNKKKEK ERPEISLPSD FEHTIHVGFD AVTGEFTGMP EQWARLLQTS NITKSEQKKN
	PQAVLDVLEF YNSKKTSNSQ KYMSFTDKSA EDYNSSNALN VKAVSETPAV PPVSEDEDDD
	DDDATPPPVI APRPEHTKSV YTRSVIEPLP VTPTRDVATS PISPTENNTT PPDALTRNTE
	KQKKKPKMSD EEILEKLRSI VSVGDPKKKY TRFEKIGQGA SGTVYTAMDV ATGQEVAIKQ
	MNLQQQPKKE LIINEILVMR ENKNPNIVNY LDSYLVGDEL WVVMEYLAGG SLTDVVTETC
	MDEGQIAAVC RECLQALEFL HSNQVIHRDI KSDNILLGMD GSVKLTDFGF CAQITPEQSK
	RSTMVGTPYW MAPEVVTRKA YGPKVDIWSL GIMAIEMIEG EPPYLNENPL RALYLIATNG
	TPELQNPEKL SAIFRDFLNR CLEMDVEKRG SAKELLQHQF LKIAKPLSSL TPLIAAAKEA TKNNH
Purification:	SDS-PAGE
Purity:	> 90 %

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Target Detail	S
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Target:	PAK1
Alternative Name:	PAK1 (PAK1 Products)
Background:	Protein kinase involved in intracellular signaling pathways downstream of integrins and
	receptor-type kinases that plays an important role in cytoskeleton dynamics, in cell adhesion,
	migration, proliferation, apoptosis, mitosis, and in vesicle-mediated transport processes. Can
	directly phosphorylate BAD and protects cells against apoptosis. Activated by interaction with
	CDC42 and RAC1. Functions as GTPase effector that links the Rho-related GTPases CDC42 an
	RAC1 to the JNK MAP kinase pathway. Phosphorylates and activates MAP2K1, and thereby
	mediates activation of downstream MAP kinases. Involved in the reorganization of the actin
	cytoskeleton, actin stress fibers and of focal adhesion complexes. Phosphorylates the tubulin
	chaperone TBCB and thereby plays a role in the regulation of microtubule biogenesis and
	organization of the tubulin cytoskeleton. Plays a role in the regulation of insulin secretion in
	response to elevated glucose levels. Part of a ternary complex that contains PAK1, DVL1 and
	MUSK that is important for MUSK-dependent regulation of AChR clustering during the
	formation of the neuromuscular junction (NMJ). Activity is inhibited in cells undergoing
	apoptosis, potentially due to binding of CDC2L1 and CDC2L2. Phosphorylates MYL9/MLC2.
	Phosphorylates RAF1 at 'Ser-338' and 'Ser-339' resulting in: activation of RAF1, stimulation of
	RAF1 translocation to mitochondria, phosphorylation of BAD by RAF1, and RAF1 binding to
	BCL2. Phosphorylates SNAI1 at 'Ser-246' promoting its transcriptional repressor activity by
	increasing its accumulation in the nucleus. In podocytes, promotes NR3C2 nuclear localization
	Required for atypical chokine receptor ACKR2-induced phosphorylation of LIMK1 and cofilin
	(CFL1) and for the up-regulation of ACKR2 from endosomal compartment to cell mbrane,
	increasing its efficiency in chokine uptake and degradation. In synapses, ses to mediate the
	regulation of F-actin cluster formation performed by SHANK3, maybe through CFL1
	phosphorylation and inactivation
Molecular Weight:	76.6 kDa
JniProt:	Q13153
Pathways:	MAPK Signaling, RTK Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway,
	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid
	Hormone Receptor Signaling, Skeletal Muscle Fiber Development, CXCR4-mediated Signaling
	Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth
	Factor Receptor, Embryonic Body Morphogenesis

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Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images

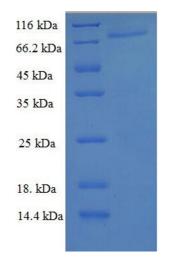


Image 1.

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