

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 |
|---------------|---|
|---------------|---|

| 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

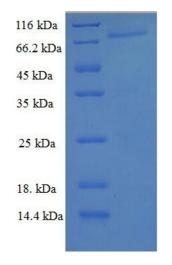


Image 1.

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