

Product datasheet for PH325947

PAK1 (NM_001128620) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | PAK1 MS Standard C13 and N15-labeled recombinant protein (NP_001122092) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC225947 |
| Predicted MW: | 61.5 kDa |
| Protein Sequence: | >RC225947 representing NM_001128620 Red=Cloning site Green=Tags(s) |

MSNNGLDIQDKPPAPPMRNTSTMIGAGSKDAGTLNHGSKPLPPNPEEKKKKDRFYRSILPGDKTNKKKEK
ERPEISLPSDFEHTIHVGFDAVTGFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFYNSKKTNSQ
KYMSFTDKSAEDYNSSNALNVKAVSETPAVPPVSEDEDDDDDDATPPPVIAPRPEHTKSVYTRSVIEPLP
VTPTRDVATSPIPTENNTTPPDALTRNTEKQKKPKMSDEEILEKLRISIVSGDPKKKYTRFEKIGQGA
SGTVYTAMDVATGQEVAIKQMNLLQQPKKELINEILVMRENKNPNIVNYLDSYLVGDELWVMEYLAGG
SLTDVVTETCMDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNILLGMDGSVKLTDFGCAQITPEQSK
RSTMVGTPTYWMAPEVVTRKAYGPKVDIWSLGIMAIEMIEGEPYLNENPLRALYL IATNGTPELQNPEKL
SAIFRDFLNRCLMDVEKRGSAKELLQVRKLRQVFSNFSMIAASIPEDCQAPLQPHSTDCCS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_001122092 |
| RefSeq ORF: | 1659 |
| Synonyms: | alpha-PAK; IDDMSSD; p65-PAK; PAKalpha |



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Locus ID: 5058

UniProt ID: [Q13153](#)

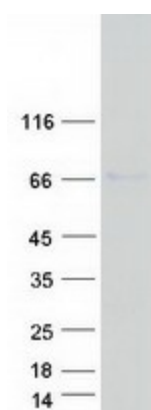
Cytogenetics: 11q13.5-q14.1

Summary: 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. Mutations in this gene have been associated with macrocephaly, seizures, and speech delay. Overexpression of this gene is also reported in many cancer types, and particularly in breast cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Axon guidance, Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified PAK1 protein (Cat# [TP325947]). The protein was produced from HEK293T cells transfected with PAK1 cDNA clone (Cat# [RC225947]) using MegaTran 2.0 (Cat# [TT210002]).