

Product datasheet for **TP325947L**

PAK1 (NM_001128620) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human p21 protein (Cdc42/Rac)-activated kinase 1 (PAK1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225947 representing NM_001128620 Red =Cloning site Green =Tags(s)

MSNNGLDIQDKPPAPPMRNTSTMIGAGSKDAGTLNHGSKPLPPNPEEKKKKDRFYRSILPGDKTNKKKEK
ERPEISLPSDFEHTIHVGFDAVTGEFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFYNSKKTNSQ
KYMSFTDKSAEDYNSSNALNVKAVSETPAVPPVSEDEDDDDDDATPPPVIAPRPEHTKSVYTRSVIEPLP
VTPTRDVATSPISPTENNTTPDALTRNTEKQKKKPKMSDEEILEKLRISVSVGDPKKKYTRFEKIGQGA
SGTVYTAMDVATGQEVAIKQMNLLQQPKKELIINEILVMRENKNPNIVNYLDSYLVGDELWVWMEYLAGG
SLTDVVTETCMDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNILLGMDGSVKLTDFGFCAQITPEQSK
RSTMVGTPTYWMAPEVVTRKAYGPKVDIWSLGMIAEMIEGEPYPYLNENPLRALYLIATNGTPELQNPEKL
SAIFRDFLNRCLMDVVEKRGSAKELLQVRKLRQVFSNFSMIAASIPEDCCQAPLQPHSTDCCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

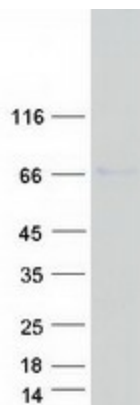
Tag:	C-Myc/DDK
Predicted MW:	61.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001122092
Locus ID:	5058
UniProt ID:	Q13153
Cytogenetics:	11q13.5-q14.1
RefSeq ORF:	1659
Synonyms:	alpha-PAK; IDDMSSD; p65-PAK; PAKalpha
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]).