

Recombinant Full Length Human PAK4 Protein, C-Flag-tagged

Cat. No. PAK4-382HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PAK4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	63.9 kDa
AA Sequence	MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDP ACITSIQPGAPKTI VRGSKGAKDGALTLLLDEFENMSVTRSNSLRRDSPPPPARRARQ ENGMPEEPATTARGGPGKAGSRGRFAG HSEAGGGSGDRRRRAGPEKRPKSSREG SGGPQESSRDKRPLSGPDVGTQPAGLASGAKLAAGRPFNTYPR ADTDHPSRGA

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QGEPHDVAPNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPA
 CTPAA PAVPGPPGPRSPQREPQRVSHEQFRAALQLVVDPGDPRS YLDNFIKIGEGS
 TGIVCIATVRSSGKLVAVK KMDLRKQQRRELLFNEVVIMRDYQHENVVEMYSYLV
 GDELWVMEFLEGGALTDIVTHTRMNEEQIAAV CLAVLQALSVLHAQGVHRDIKSD
 SILLTHDGRVKLSDFGCAQVSKEVPRRKS LVGTPYWMAPELISRL PYGPEVDIWSL
 GIMVIEMVDGEPYPFNEPPLKAMKMIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPA
 QR
 ATAAELLKHPFLAKAGPPASIVPLMRQNRTRTRTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
Full Length	Full L.

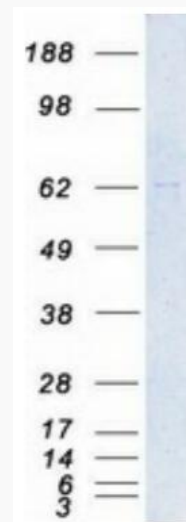
GENE INFORMATION

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Gene Name	PAK4 p21 (RAC1) activated kinase 4 [Homo sapiens (human)]
Official Symbol	PAK4
Synonyms	p21 protein (Cdc42/Rac)-activated kinase 4; p21(CDKN1A)-activated kinase 4; p21-activated kinase 4
Gene ID	10298
mRNA Refseq	NM_005884.5
Protein Refseq	NP_005875.1
MIM	605451
UniProt ID	O96013



Coomassie blue staining of purified PAK4 protein.

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