

Recombinant Human PAK4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAK4-1966H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAK4 MS Standard C13 and N15-labeled recombinant protein (NP_001014832) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	64.1 kDa
AA Sequence	MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDP ACITSIQPGAPKTIVRGSKGAKDGALTLLLDEFENMSVTRSNLSLRDSPPPPARARQ ENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGDRRRRAGPEKRPKSSREG SGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQ

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GEPHDVAPNGPSAGGLAIPQSSSSSRPPTRRARGAPSPGVLGPHASEPQLAPPACT
 PAAPAVPGPPGPRSPQREPQRVSHEQFRAALQLVVDPGDPRSYLDNFIKIGEGSTGI
 VCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQHENVVEMYNSYLVGDE
 LWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVIHRDIKSDSILLT
 HDGRVKLSDFGFCAQVSKEVPRRKSLVGTPYWMAPELISRLPYGPEVDIWSLGIMVI
 EMVDGEPPYFNEPPLKAMKMIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRAT
 AAELLKHPFLAKAGPPASIVPLMRQNRTTRTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PAK4 p21 (RAC1) activated kinase 4 [Homo sapiens (human)]

Official Symbol PAK4

Synonyms PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21(CDKN1A) activated kinase 4; serine/threonine-protein kinase PAK 4; PAK-4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs;

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Gene ID	10298
mRNA Refseq	NM_001014832
Protein Refseq	NP_001014832
MIM	605451
UniProt ID	O96013
SDS-PAGE	