

Recombinant Human PAK4

Cat. No. PAK4-30671TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PAK4 with N-terminal proprietary tag; MWt 90kDa.
Species	Human
Source	Insect Cells
ProteinLength	591 amino acids
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 Weight	90.000kDa inclusive of tags
Tissue specificity	Highest expression in prostate, testis and colon.
Biological activity	The specific activity of PAK4-30671TH was determined to be 72 nmol/min/mg.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [Homo sapiens]
Official Symbol	PAK4
Synonyms	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21(CDKN1A) activated kinase 4; serine/threonine-protein kinase PAK 4;
Gene ID	10298
mRNA Refseq	NM_001014831
Protein Refseq	NP_001014831
MIM	605451
Uniprot ID	O96013
Chromosome Location	19p11-q11
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific

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biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem;

Function

ATP binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity;

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