Recombinant Human PAK2, GST-His

Cat. No. PAK2-721H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAK2, Amino acids D3-R52, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed inSf9 cells. MW = 87,954 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	3-52 a.a.
Description	The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. The PAK proteins are a family of serine/threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The protein encoded by this gene is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PAK2 was confirmed as PAK2 by specific Western Blotting using anti PAK2 antibody.
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.
Concentration	0.403 μg/μl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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	standard protein).
Specific Activity	228 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name	PAK2 p21 protein (Cdc42/Rac)-activated kinase 2 [Homo sapiens]
Synonyms	PAK2; p21 protein (Cdc42/Rac)-activated kinase 2; PAK65; PAKgamma; p21-activated kinase 2; S6/H4 kinase; p21 (CDKN1A)-activated kinase 2; EC 2.7.11.1; PAK-2; Gamma-PAK; p58
Gene ID	5062
mRNA Refseq	NM_002577
Protein Refseq	NP_002568
MIM	605022
UniProt ID	Q13177
Chromosome Location	3q29
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; MAPK signaling pathway; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway

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Function	ATP binding; identical protein binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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