

Recombinant Human PAK2

Cat. No. PAK2-30670TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, amino acids 227-524 of Human PAK2, expressed in E.coli, 33.35 kDa,
Species	Human
Source	E.coli
ProteinLength	298 amino acids
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.
Molecular Weight	33.350kDa
Biological activity	86 nmoles/min/μg Analysis of enzymatic activity: 1. Different concentrations of PAK2 were incubated in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl ₂ , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate (SER/THR20) at room temperature for 1 hour
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 5mM DTT, 25mM Tris HCl, 150mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	PAK2 p21 protein (Cdc42/Rac)-activated kinase 2 [Homo sapiens]
Official Symbol	PAK2
Synonyms	PAK2; p21 protein (Cdc42/Rac)-activated kinase 2; p21 (CDKN1A) activated kinase 2; serine/threonine-protein kinase PAK 2; PAK65; PAKgamma; S6/H4 kinase;
Gene ID	5062
mRNA Refseq	NM_002577
Protein Refseq	NP_002568
MIM	605022
Uniprot ID	Q13177
Chromosome Location	3q29
Pathway	Activation of Rac, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Axon guidance, organism-specific

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biosystem;

Function

ATP binding; identical protein binding; nucleotide binding; protein binding; protein kinase activity;

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