

## Recombinant Human PAK2

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, amino acids 227-524 of Human PAK2, expressed in E.coli, 33.35 kDa,
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	298 amino acids
<b>Description</b>	<p>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.</p>
<b>Molecular Weight</b>	33.350kDa
<b>Biological activity</b>	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 <sub>2</sub> , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate (SER/THR20) at room temperature for 1 hour
<b>Form</b>	Liquid

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

## GENE INFORMATION

<b>Gene Name</b>	PAK2 p21 protein (Cdc42/Rac)-activated kinase 2 [ Homo sapiens ]
<b>Official Symbol</b>	PAK2
<b>Synonyms</b>	PAK2; p21 protein (Cdc42/Rac)-activated kinase 2; p21 (CDKN1A) activated kinase 2; serine/threonine-protein kinase PAK 2; PAK65; PAKgamma; S6/H4 kinase;
<b>Gene ID</b>	5062
<b>mRNA Refseq</b>	NM_002577
<b>Protein Refseq</b>	NP_002568
<b>MIM</b>	605022
<b>Uniprot ID</b>	Q13177
<b>Chromosome Location</b>	3q29
<b>Pathway</b>	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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