

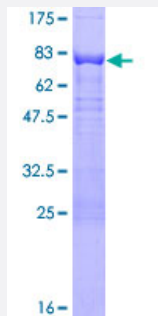
Full-Length

# PAK1 (Human) Recombinant Protein (P01)

Catalog # H00005058-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human PAK1 full-length ORF ( AAH50377.1, 1 a.a. - 447 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MSNGLDIQDKPPAPPMRNTSTMIGAGSKDAGTLNHGSKPLPPNPPEKKKKDRFYRSILPGDKTN  
KKKEKERPEISLPDFEHTIHVGFDVATGFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFY  
NSKKTNSQKYMSFTDKSAEDYNSSNALNVKAVSETPAVPPVSEDEDDDDDDATPPPVIAPRP  
EHTKSVYTRSVIEPLVTPTRDVATSPISPTENNTTPPDALTRNTEKQKKKPKMSDEEILEKLRSIVS  
VGDPKKKYTRFEKIGQGASGTVYTAMDVATGQEVAIKQMNLLQQPKKELINEILVMRENKNPNVN  
YLD SYLVGDELWVMEYLAGGSLTDVVTETCMDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNI  
LLGMDGSVKLTDFGFCAQITPEQSKRSTMVGTPLYWMAPEVVTRKAYGPKVDI

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

76

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PAK1

Entrez GeneID [5058](#)

GeneBank Accession# [BC050377.1](#)

Protein Accession# [AAH50377.1](#)

Gene Name PAK1

Gene Alias MGC130000, MGC130001, PAKalpha

Gene Description p21 protein (Cdc42/Rac)-activated kinase 1

Omim ID [602590](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations** STE20 homolog, yeast|p21-activated kinase 1|p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast)|p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related)

## Publication Reference

- [P21 activated kinase4 in pancreatic acini is activated by GI hormones /growth factors by novel signaling and is needed to stimulate secretory/growth cascades.](#)

Ramos-Alvarez I, Jensen RT.

American Journal of Physiology. Gastrointestinal and Liver Physiology 2018 Apr; [Epub].

Application: WB, Recombinant protein

## Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [MAPK signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Carcinoma](#)
- [Esophageal Neoplasms](#)
- [HIV Infections](#)
- [Tobacco Use Disorder](#)