

Full-Length

## PAK4 (Human) Recombinant Protein (P01)

Catalog # H00010298-P01

Size 50 ug

### Specification

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human PAK4 full-length ORF ( ACT64540.1, 1 a.a. - 501 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sequence</b>                      | MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPG<br>APKTIVRGSKGAKDGALTLLDEFENMSVTRSNSLRRDSPPPPARARQENGMPPEEPATTARGGP<br>GKGEPHDVAPNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPA<br>VPGPPGPRSPQREPQRVSHEQFRAALQLVVDPGDPRS YLDNFIKIGEGSTGIVCIATVRSSGKLV<br>AVKKMDLRKQQRRELLFNEVVIMRDYQHENVVEMYNSYLVGDELWVVMFLEGGALTDIVTHTR<br>MNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTHDGRVKLSDFGFCQAQVSKEVPRRKSLVG<br>TPYWMAPELISRLPYGPEVDWISLIMVIEMVDGEPPYFNEPPLKAMKMIRDNLPPRLKNLHKVSP<br>SLKGFLLDRLLVRDPAQRATAAELLKHPFLAKAGPPASVPLMRQNRTR |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Theoretical MW (kDa)</b>          | 55.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Interspecies Antigen Sequence</b> | Mouse (92); Rat (92)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Note</b>                          | 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 — PAK4

Entrez GeneID [10298](#)

GeneBank Accession# [GQ129406.1](#)

Protein Accession# [ACT64540.1](#)

Gene Name PAK4

Gene Alias -

Gene Description p21 protein (Cdc42/Rac)-activated kinase 4

Omim ID [605451](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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. [provided by RefSeq]

**Other Designations** p21(CDKN1A)-activated kinase 4|p21-activated kinase 4|protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs

## Pathway

- [Axon guidance](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)

- [T cell receptor signaling pathway](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Parkinson disease](#)