

## Recombinant Human p21 Protein (Cdc42/Rac)-Activated Kinase 2, GST-tagged

**Cat. No.** PAK2-1282H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant humanfull length PAK2, GST-tagged. Its molecular weight is 85500 Dalton.                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | PAK2 proteins arecritical effectors that link Rho GTPases to cytoskeleton reorganization andnuclear signaling. PAK2 proteins, a family of serine/threonine p21-activatingkinases, serve as targets for the small GTP binding proteins Cdc42 and RACand have been implicated in a wide range of biological activities. |
| <b>Form</b>             | Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.                                                                                                                                                                                                                |
| <b>Molecular Weight</b> | 85.5 kDa                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                   |
| <b>OfficialSymbol</b>   | PAK2                                                                                                                                                                                                                                                                                                                  |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                               |

### GENE INFORMATION

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                    |                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>                   | PAK2 p21 protein (Cdc42/Rac)-activatedkinase 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>                    | 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; C-t-PAK2                                                                                                                                                                |
| <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;Adaptive Immune System; Apoptosis; Apoptotic execution phase; Axon guidance;C-MYC pathway; CD28 co-stimulation; CDC42 signaling events; Costimulation bythe CD28 family; ErbB signaling pathway; Focal adhesion; MAPK signalingpathway; Regulation of actin cytoskeleton; Renal cell carcinoma; T cellreceptor signaling pathway |
| <b>Function</b>                    | ATP binding;identical protein binding; nucleotide binding; protein binding; proteinkinase activity; protein kinase binding; protein serine/threonine kinaseactivity; protein tyrosine kinase activator activity                                                                                                                                    |
| <b>PDB rendering basedon 1e0a.</b> |                                                                                                                                                                                                                                                                                                                                                    |

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