

# Product datasheet for TP723906

### PAK4 (NM\_005884) Human Recombinant Protein

#### **Product data:**

#### OriGene Technologies, Inc.

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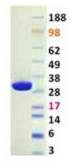
| Product Type:                            | Recombinant Proteins   |
|--|--|
| Description:                             | Purified recombinant kinase domain protein of human p21 protein (Cdc42/Rac)-activated<br>kinase 4 (PAK4), transcript variant 1, 100 μg   |
| Species:                                 | Human  |
| Expression Host:                         | E. coli  |
| Expression cDNA Clone<br>or AA Sequence: | GPHMSHEQFR AALQLVVDPG DPRSYLDNFI KIGEGSTGIV CIATVRSSGK LVAVKKMDLR<br>KQQRRELLFN EVVIMRDYQH ENVVEMYNSY LVGDELWVVM EFLEGGALTD IVTHTRMNEE<br>QIAAVCLAVL QALSVLHAQG VIHRDIKSDS ILLTHDGRVK LSDFGFCAQV SKEVPRRKSL<br>VGTPYWMAPE LISRLPYGPE VDIWSLGIMV IEMVDGEPPY FNEPPLKAMK MIRDNLPPRL<br>KNLHKVSPSL KGFLDRLLVR DPAQRATAAE LLKHPFLAKA GPPASIVPLM RQNRT |
| Tag:                                     | Tag Free   |
| Predicted MW:                            | 33.3 kDa   |
| Concentration:                           | lot specific   |
| Purity:                                  | >90% as determined by SDS-PAGE and Coomassie blue staining   |
| Buffer:                                  | 25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol, 5 mM DTT.  |
| Bioactivity:                             | Specific activity was determined as 5,595 pmoles/min/μg, according to the Zlyte assay<br>protocol  |
| Endotoxin:                               | < 0.1 ng/µg of protein (< 1EU/µg)  |
| Storage:                                 | Store at -80°C.  |
| Stability:                               | Stable at -80°C for 12 months from date of receipt. Protein should be thawed on ice. Protein can be flash-frozen in liquid nitrogen and stored at -80°C.   |
| RefSeq:                                  | <u>NP 005875</u>   |
| Locus ID:                                | 10298  |
| UniProt ID:                              | <u>O96013, A0A024R0J1</u>  |
| RefSeq Size:                             | 2838   |
| Cytogenetics:                            | 19q13.2  |
| RefSeq ORF:                              | 1773   |



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|                  | PAK4 (NM_005884) Human Recombinant Protein – TP723906  |
|------------------|--|
| Summary:         | PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3<br>and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton<br>reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins<br>Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4<br>interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family<br>of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the<br>reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants<br>encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| Protein Families | : Druggable Genome, Protein Kinase   |
| Protein Pathway  | <b>/s:</b> Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway  |

## Product images:



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