

## Recombinant Human PAK3, GST-tagged, Active

Cat. No. PAK3-379H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PAK3 was expressed by <i>baculovirus</i> in <i>Sf9</i> insect cell using an N-terminal GST tag. MW=89 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PAK3 is a member of the family of serine/threonine p21-activating kinases that serve as targets for the small GTP binding proteins Cdc42 and RAC. The PAK family of proteins have been implicated in a wide range of biological activities and are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK3 seems to be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. A point mutation in PAK3 gene has been linked to nonsyndromic X-linked mental retardation.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

### 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>	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [ Homo sapiens ]
<b>Synonyms</b>	PAK3; p21 protein (Cdc42/Rac)-activated kinase 3; bPAK; MRX30; MRX47; OPHN3; hPAK3; CDKN1A; PAK3beta; p21-activated kinase 3; beta-PAK; oligophrenin-3; OTTHUMP00000023856; p21 (CDKN1A)-activated kinase 3; serine/threonine-protein kinase PAK 3; EC 2.7.11.1
<b>Gene ID</b>	5063
<b>mRNA Refseq</b>	NM_001128166
<b>Protein Refseq</b>	NP_001121638
<b>MIM</b>	300142
<b>UniProt ID</b>	O75914
<b>Chromosome Location</b>	Xq23
<b>Pathway</b>	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Axon guidance
<b>Function</b>	ATP binding; collagen binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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