Recombinant Human PAK3, GST-tagged, Active

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

SPECIFICATION

Product Overview	Recombinant full-length human PAK3 was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=89 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	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

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Gene Name	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [Homo sapiens]
Synonyms	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
Gene ID	5063
mRNA Refseq	NM_001128166
Protein Refseq	NP_001121638
MIM	300142
UniProt ID	O75914
Chromosome Location	Xq23
Pathway	Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Axon guidance
Function	ATP binding; collagen binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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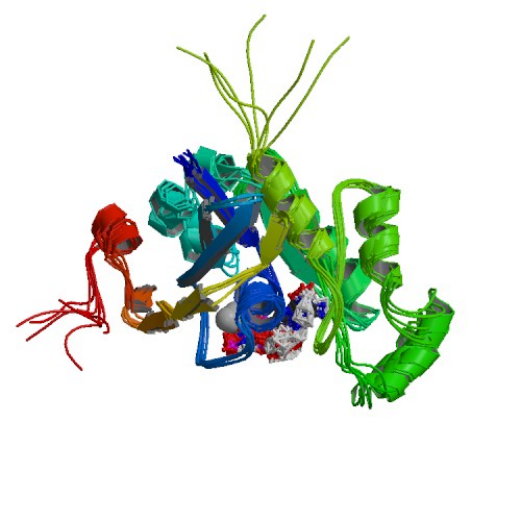
PDB rendering based on 1e0a.	

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