

## Recombinant Human PAK7, GST-tagged, Active

Cat. No. PAK7-382H    Lot. No. (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant full-length human PAK7 was expressed by <i>baculovirus in Sf9 insect cell</i> using an N-terminal GST tag. MW=130 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>           | PAK7 (also known as PAK5) is a novel human PAK family kinase that contains a CDC42/Rac1 interactive binding (CRIB) motif at the N-terminus and a Ste20-like kinase domain at the C-terminus. The p21-activated kinase (PAK) family of protein kinases has recently attracted considerable attention as an effector of Rho family of small G proteins and as an upstream regulator of MAPK signalling pathways during cellular events such as re-arrangement of the cytoskeleton and apoptosis. PAK7 like the other Paks has been implicated in the regulation of cell morphology, motility and transformation. |
| <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

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|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PAK7 p21 protein (Cdc42/Rac)-activated kinase 7 [ Homo sapiens ]                                                                                                                                                                                             |
| <b>Synonyms</b>            | PAK7; p21 protein (Cdc42/Rac)-activated kinase 7; PAK5; KIAA1264; MGC26232; OTTHUMP00000030260; p21(CDKN1A)-activated kinase 7; p21-activated kinase 7; p21CDKN1A-activated kinase 7; protein kinase PAK5; serine/threonine-protein kinase PAK7; EC 2.7.11.1 |
| <b>Gene ID</b>             | 57144                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_020341                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_065074                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 608038                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | Q9P286                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 20p12                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Axon guidance; ErbB signaling pathway; Focal adhesion; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway                                                                                                             |
| <b>Function</b>            | ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity                                                                                                                                             |

PDB rendering based  
on 2f57.



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