

Full-Length

PAK7 (Human) Recombinant Protein (P01)

Catalog # H00057144-P01

Size 50 ug

Specification

Product Description	Human PAK7 full-length ORF (ABM84974.1, 1 a.a. - 719 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MFGKKKKKIEISGPSNFEHRVHTGFDAQEQKFTGLPQQWHSLLADTANRPKPMVDPSCITPIQLA PMKTIVRGNKPKETSINGLLEDFDNISVTRSNLSRKESPPTPDQGASSHGPGHAEENGFIITSQY SSESDTTADYTTEKYREKSLYGDDLDPPYRGSHAAKQNGHVMKMKHGEAYYSEVKPLKSDFAF SADYHSHLDSLSPSEYSDLKWEYQRASSSSPLDYSFQFTPSRTAGTSGCSKESLAYSESEWG PSLDDYDRRPKSSYLNQTSPQPTMRQSRSGSLQEPMPFPGASAFKTHPQGHSYNSYTPRL SEPTMCIPKVDYDRAQMVLSPPLSGSDTYPRGPAKLQSQSKSGYSSSSHQYPSGYHKATLYHH PSLQSSSQYISTASYLSYLSLSSSTYPPPSWGSSSDQQPSRVSHEQFRAALQLVVSPGDPREYLA NFIKIGEGSTGIVCIATEKHTGKQVAVKKMDLRKQQRRELLFNEVVIMRDYHHDNVVDMYSSYLVG DELWVMEFLEGGALTDVTHTRMNEEQIATVCLSVLRALSYLHNQGVHRDIKSDSILLTSDGRIKL SDFGCAQVSKEVPKRKSLVGTPYWMapevisRLPYGTEVDIWSLGIMVIEMIDGEPYPFNEPPLQ AMRRIRDSLPPRVKDLHKVSSVLRGFLDMLVREPSQRATAQELLGHPFLKLAGPPSCVPLMRQ YRHH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	105.49
Interspecies Antigen Sequence	Mouse (93); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PAK7

Entrez GeneID [57144](#)

GeneBank Accession# [DQ894048.2](#)

Protein Accession# [ABM84974.1](#)

Gene Name PAK7

Gene Alias KIAA1264, MGC26232, PAK5

Gene Description p21 protein (Cdc42/Rac)-activated kinase 7

Omim ID [608038](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1 interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]

Other Designations

OTTHUMP00000030258|OTTHUMP00000030259|OTTHUMP00000030260|p21(CDKN1A)-activated kinase 7|p21-activated kinase 7|protein kinase PAK5|serine/threonine-protein kinase PAK 7

Pathway

- [Axon guidance](#)
- [ErbB signaling pathway](#)

- [Focal adhesion](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Parkinson disease](#)
- [Tobacco Use Disorder](#)