

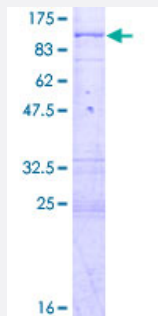
Full-Length

PAK6 (Human) Recombinant Protein (P01)

Catalog # H00056924-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PAK6 full-length ORF (NP_064553.1, 1 a.a. - 681 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MFRKKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNILDTLRRPKPVVDPSRITRVQLQ
PMKTVVRGSAMPVDGYISGLLNDIQKLSVISSNTLRGRSPTSRRAQSLGLLGDEHWATDPDML
QSPQSERTDPHGLYLSCNGGTPAGHKQMPWPEPQSPRVLPNGLAAKAQLGPAEFQGASQRC
LQLGACLQSSPPGASPTGTNRHGMKAAKHGSEEARPQSCLVGSATGRPGGEGSPSPKTRES
SLKRRLFRSMFLSTAATAPPSSSKPGPPPQSKPNSSFRPPQKDNPPSLVAKAQLPSDQPVGT
FSPLTSDTSSPQKSLRTAPATGQLPGRSSPAGSPRTWHAQISTSNLYLPQDPTVAKGALAGEDT
GVVTHEQFKAALRMVVDQGDPRLLLD SYVKIGEGSTGMVCLAREKHSGRQVAVKMMDLRKQRR
ELLFNEVVIMRDYQHFNVVEMYKSYLVGEELWVLMEFLQGGALTDIVSQVRLNEEQIATVCEAVLQ
ALAYLHAQQVIHRDIKSDSILLTDGRVKLSDFGFCQAQISKDVPKRKSLVGTPYWMAPEVISRSLYA
TEVDIWSLGIMVIEMVDGEPPYFSDSPVQAMKRLRDSPPPCLKNSHKVSPVLRDFLERMLVRDP
QERATAQELLDPFLQTGLPECLVPLIQLYRKQTSTC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

101.3

Interspecies Antigen Sequence

Mouse (92); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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 — PAK6

Entrez GeneID	56924
GeneBank Accession#	NM_020168.3
Protein Accession#	NP_064553.1
Gene Name	PAK6
Gene Alias	PAK5
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 6
Omim ID	608110
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the p21-activated kinase (PAK) family. The proteins of this family are Rac/Cdc42-associated Ste20-like Ser/Thr protein kinases, characterized by a highly conserved amino-terminal Cdc42/Rac interactive binding (CRIB) domain and a carboxyl-terminal kinase domain. PAK kinases are implicated in the regulation of a number of cellular processes, including cytoskeleton rearrangement, apoptosis and the MAP kinase signaling pathway. The protein encoded by this gene was found to interact with androgen receptor (AR), which is a steroid hormone-dependent transcription factor that is important for male sexual differentiation and development. This gene was found to be highly expressed in testis and prostate tissues and the encoded protein was shown to cotranslocate into the nucleus with AR in response to androgen. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations

p21(CDKN1A)-activated kinase 6/p21-activated kinase 6/p21-activated protein kinase 6

Pathway

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

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)