

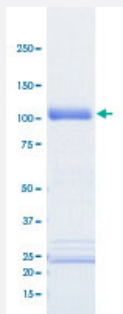
Bioactive

Full-Length

PAK6 (Human) Recombinant Protein

Catalog # P5791 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

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Specification

| | |
|-----------------------------|---|
| Product Description | Human PAK6 (NP_064553.1, 1 a.a. - 681 a.a.) full-length recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells. |
| Host | insect |
| Theoretical MW (kDa) | 102 |
| Form | Liquid |
| Preparation Method | Baculovirus infected insect cell (Sf21) expression system |
| Purification | Glutathione sepharose chromatography |
| Purity | 72 % by SDS-PAGE/CBB staining |

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|-------------------------|--|
| Activity | The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip3000. Substrate : SGKtide. ATP: 100 μ M. |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue |
| Storage Buffer | In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol) |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| Note | Result of activity analysis Result of activity analysis |

Applications

- Functional Study
- SDS-PAGE

Gene Info — PAK6

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|--------------------|--|
| Entrez GeneID | 56924 |
| 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](#)