Recombinant human PAK4 protein

Catalog Number: PAK0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-591aa

UniProt No.
O96013

NCBI Accession No.
NP_001014831

Alternative Names
p21-activated kinase 4 isoform 1, p21 protein (Cdc42/Rac)-activated kinase 4, Serine/threonine-protein kinase, PAK 4, p21 activated kinase 4 isoform 1, p21-activated kinase 4 isoform 1 KIAA1142, p21 activated kinase 4, p21(CDKN1A) activated kinase 4, Protein kinase related to S.cerevisiae STE20 effector for Cdc42Hs, Serine threonine kinase PAK 4, Serine/threonine protein kinase PAK 4, Serine/threonine protein kinase PAK4.

PRODUCT SPECIFICATION

Molecular Weight
68.3 kDa (628aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 25mM HEPES buffer (pH 7.4) containing 150mM NaCl, 5mM MgCl2, 30% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
PAK4 is a member of the group B family of p21-activated kinases (PAK). It's identified as an effector protein for

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cell division cycle 42 (Cdc42) and protein that play an important role in regulating cytoskeletal organization and cell morphology. Its expression is elevated in many cancer cell lines, and suggested that it plays an important role in tumorigenesis. Recombinant PAK4 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

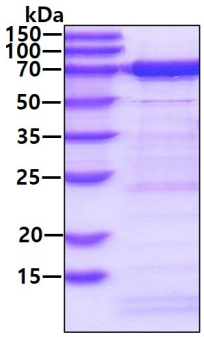
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH>MFG KRKKRVEISA PSNFEHRVHT GFDQHEQKFT GLPRQWQSLI EESARRPKPL VDPACITSIQ PGAPKTIVRG SKGAKDGALT LLLDEFENMS VTRSNSLRRD SPPPPARARQ ENGMPEEPAT TARGGPGKAG SRGRFAGHSE AGGGSGDRRR AGPEKRPKSS REGSGGPQES SRDKRPLSGP DVGTPQPAGL ASGAKLAAGR PFNTYPRADT DHPSRGAQGE PHDVAPNGPS AGGLAIPQSS SSSSRPPTRA RGAPSPGVLG PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRVSHEQ FRAALQLVVD PGDPRSYLDN FIKIGEGSTG IVCIATVRSS GKLVAVKKMD LRKQQRRELL FNEVVIMRDY QHENVVEMYN SYLVGDELWV VMEFLEGGAL TDIVTHTRMN EEQIAAVCLA VLQALSVLHA QGVIHRDIKS DSILLTHDGR VKLSDFGFCA QVSKEVPRRK SLVGTPYWMA PELISRLPYG PEVDIWSLGI MVIEMVDGEP PYFNEPPLKA MKMIRDNLPP RLKNLHKVSP SLKGFLDRLL VRDPAQRATA AELLKHPFLA KAGPPASIVP LMRQNRTR

General References

Liu Y., et al. (2008). Mol Cancer Res. 6(7):1215-24.
Li X., et al. (2005). J Biol Chem. 280(50):41192-200.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.