

AR09065PU-N

Human PAK4 (1-591, His-tag) - Purified

Alternate names:	KIAA1142, PAK 4, PAK-4, Serine/threonine-protein kinase PAK 4, p21-activated kinase 4
Quantity:	0.1 mg
Concentration:	1 mg/ml (determined by Bradford assay)
Uniprot ID:	O96013
NCBI:	NP_001014831.1
GeneID:	10298
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% Buffer System: 50mM Tris-HCl pH 8.0, 2 mM DTT, 10% glycerol Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)
Applications:	SDS-PAGE Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	PAK4 is a member of the group B family of p21-activated kinases (PAK). It's identified as an effector protein for 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. AA Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMMFG KRKKRVEISA PSNFEHRVHT GFDQHEQKFT GLPRQWQSLI EESARRPKPL VDPACITSIQ PGAPKTIVRG SKGAKDGALT LLLDEFENMS VTRNSNLRD SPPPPARARQ ENGMPEEPAT TARGGPGKAG SRGRFAGHSE AGGGSGDRRR AGPEKRPKSS REGSGGPQES SRDKRPLSGP DVGTPQPAGL ASGAKLAAGR PFNTYPRADT DHPSRGAQGE PHDVAPNGPS AGGLAIPQSS SSSSRPPTRA RGAPSPGVLG PHASEPQLAP PACTPAAPAV PGPPGPRSPQ REPQRVSHEQ FRAALQLVVD PGDPRS YLDN FIKIGEGSTG IVCIAVRSS GKLVAVKKMD LRKQQRRELL FNEVVIMRDY QHENNVEMYN SYLVGDELWV VMEFLEGGAL TDIVTHTRMN EEQIAAVCLA VLQALSVLHA QGVIHRDIKS DSILLTHDGR VKLSDFGFCA QVSKEVPRRK SLVGTPYWMA PELISRLPYG PEVDIWSLGIÂ MVIEMVDGEP PYFNEPPLKA MKMIRDNLPP RLKNLHKVSP SLKGFLDRLL VRDPAQRATA AELLKHPFLA KAGPPASIVP LMRQNRTR Molecular weight: 68.3 kDa 68.3 kDa (628 aa)
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Liu Y, Xiao H, Tian Y, Nekrasova T, Hao X, Lee HJ, et al. The pak4 protein kinase plays a key role in cell survival and tumorigenesis in athymic mice. Mol Cancer Res. 2008 Jul;6(7):1215-24. doi: 10.1158/1541-7786.MCR-08-0087. PubMed PMID:

18644984.

2. Li X, Minden A. PAK4 functions in tumor necrosis factor (TNF) alpha-induced survival pathways by facilitating TRADD binding to the TNF receptor. J Biol Chem. 2005 Dec 16;280(50):41192-200. Epub 2005 Oct 14. PubMed PMID: 16227624.

Pictures:

