

PAK6 Protein, Human

Cat. No.:	HY-P701732
Synonyms:	PAK6; Serine/threonine-protein kinase PAK 6; PAK-5; p21-activated kinase 6; PAK-6
Species:	Human
Source:	E. coli
Accession:	Q9NQU5 (G383-Y674)
Gene ID:	106821730
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PAK6, a serine/threonine protein kinase, serves as a regulator of gene transcription, with its kinase activity triggered by various effectors, including AR or MAP2K6/MAPKK6. Notably, it phosphorylates the DNA-binding domain of the androgen receptor/AR, hindering AR-mediated transcription, and also inhibits ESR1-mediated transcription. PAK6's involvement in cytoskeleton regulation is suggested by its interaction with IQGAP1. Additionally, PAK6 demonstrates a potential role in cell survival by protecting cells from apoptosis through the phosphorylation of BAD. This multifaceted kinase exhibits a regulatory impact on key cellular processes, showcasing its significance in transcriptional control and cytoskeletal dynamics.
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Caution: Product has not been fully validated for medical applications. For research use only.

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