

Datasheet for ABIN7317075
PAK3 Protein (PAK3) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	PAK3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PAK3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PAK3 Protein (His Tag)(Active)
Sequence:	Met 1-Arg 544
Characteristics:	A DNA sequence encoding the human PAK3 isoform 2 (O75914-2) (Met 1-Arg 544) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 98 nmol/min/mg using MBP as substrate.

Target Details

Target:	PAK3
Alternative Name:	PAK3 (PAK3 Products)

Target Details

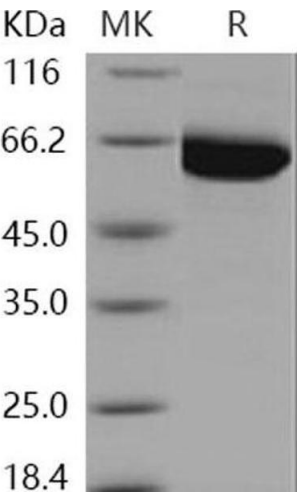
Background:	<p>Background: PAK3 is a member of PAK proteins, a family of serine/threonine p21-activating kinases, serve as effectors of small Rho GTPases Cdc42 and RAC and have been implicated in a wide range of biological activities. There are six mammalian PAKs which can be divided into two groups: group I PAKs (PAK1-3) and group II PAKs (PAK4-6). Although the two PAK groups are architecturally similar there are differences in their mode of regulation suggesting their cellular functions are likely to be different. Group I p21-activated kinases (PAK1/2/3) is demonstrated as ERK3/ERK4 activation loop kinases. It has been shown that group I PAKs phosphorylate ERK3 and ERK4 on Ser-189 and Ser-186, respectively, both in vitro and in vivo, and that expression of activated Rac1 augments this response. Besides regulation enzymatic activation of ERK3/ERK4, PAKs can also play roles in downstream activation of MAP kinase-activated protein kinase 5 (MK5) in vivo. Thus, the group I PAKs act as upstream activators of ERK3 and ERK4 and unravel a novel PAK-ERK3/ERK4-MK5 signaling pathway. In clinical, PAK has been proposed as a potential therapeutic target in schwannomas.</p> <p>Synonym: bPAK;CDKN1A;hPAK3;MRX30;MRX47;OPHN3;PAK3beta</p>
Molecular Weight:	62 kDa

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.