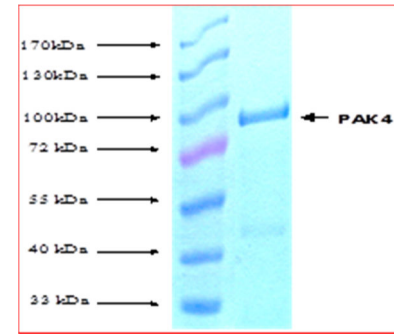


## Active PAK4

<b>CATALOG #:</b>	7707-5
<b>SOURCE:</b>	Sf 9 cells
<b>PURITY:</b>	1 µg of PAK4 protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >95% purity of the PAK4 product, and the band was at ~90 kDa.
<b>SPECIFIC ACTIVITY:</b>	83 nmol/min/mg
<b>MOLECULAR WEIGHT:</b>	~90 kDa.
<b>FORMULATION:</b>	Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
<b>STORAGE CONDITIONS:</b>	Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.

**BACKGROUND DESCRIPTION:** PAK4 is a recently identified member of the p21-activated kinases (PAKs) which have been implicated in the regulation of cell morphology, motility and transformation. These serine/threonine kinases are activated by and are effectors of small GTPases, cdc 42 and Rac. PAK4 belongs to the Group II PAKs which also includes PAK5 and PAK6 while Group I PAKs comprise of PAK1, PAK2 and PAK3. PAK4 differs from other members of the PAK family both in sequence and function. PAK4 has been shown to regulate cell morphology and cytoskeletal organization in mammalian cells. PAK4 regulates the activity of LIM kinase 1 which in turn phosphorylates Cofilin leading to cytoskeletal changes. PAK4 can protect cells from apoptosis in response to several different types of stimuli by inhibiting the pro-apoptotic proteins Bad and Caspase 8. PAK4 has been shown to associate with and mediate the downstream signaling of the keratinocyte growth factor receptor. In addition, PAK4 interacts with the β5 integrins and regulates cell migration during engagement of the αβ5 integrin receptor.

**ACTIVITY:** 83 nmol phosphate incorporated into the PKB-sub peptide (CKRPRAASFAE) per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP (0.83 µCi/assay).



PAK4 Protein Gel

### RELATED PRODUCTS:

- PAK1 Antibody (Cat. No. 3248-100)
- PAK2 Antibody (Cat. No. 3443-100)
- PAK2 Blocking peptide (Cat. No. 3443BP-50)
- PAK3 Antibody (Cat. No. 3686-100)
- PAK3 Blocking peptide (Cat. No. 3686BP-50)
- PAK4 Antibody (Cat. No. 3444-100)
- PAK4 Blocking peptide (Cat. No. 3444BP-50)
- PAK6 Antibody (Cat. No. 3927-100)
- PAK6 Blocking peptide (Cat. No. 3927BP-50)
- PAK5/PAK7 Antibody (Cat. No. 3928-100)
- PAK5/PAK7 Blocking peptide (Cat. No. 3928BP-50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**