

Product Information

PAK2, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5363**
Storage Temperature -70°C

Synonyms: PAK65, PAKgamma

Product Description

PAK2 proteins form a family of serine/threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK2 is activated by proteolytic cleavage during caspase-mediated apoptosis and may play a role in regulating the apoptotic events in the dying cell.¹ The CDC42 and RAC1 induce autophosphorylation of PAK2, which stimulates sustained phosphorylation of other substrates.²

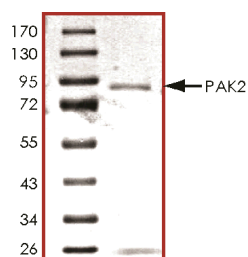
Recombinant full-length human PAK2 was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is NM_002577. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~87 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Koeppel, M.A. et al., Identification and characterization of PS-GAP as a novel regulator of caspase-activated PAK-2. *J. Biol. Chem.*, **279**, 53653-53664 (2004).
2. Martin, G.A. et al., A novel serine kinase activated by rac1/CDC42Hs-dependent autophosphorylation is related to PAK65 and STE20. *EMBO J.*, **14**, 1970-1978 (1995).

RC,MAM 10/12-1