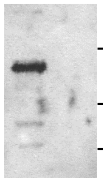
Purified Rabbit Anti-human PAK1



Human PAK1 detected by Western blot in transfected HEK293 cells (left lane)

Catalog Number: TP373

Lot Number: 052900

Content: Protein A purified rabbit IgG, 200 μg, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 200 μl PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with PAK1, was generated using *E. coli*-expressed human PAK1 (a.a. 333-545) as an immunogen. The tested titer for Western blot is 1:5,000. The Ab can also be used for immunoprecipitation.

Cross-reactivity with PAK from other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: Human p21-GTPase-activated protein kinase 1 (PAK1) is a functional homolog of STE20 of *Saccharomyces cerevisiae*. PAK1 is a downstream effector of the Rho-family small GTPases Rac and Cdc42. A serine/threonine kinase, PAK1 induces the formation of filopodia and lamellipodia in Swiss 3T3 cells. PAK1 inhibits myosin light chain kinase, and appears to play a role in the regulation of apoptosis by phosphorylating the death agonist Bad. Membrane targeting of PAK1 induces neurite outgrowth. PAK1 may also regulate NF-κB activation.

References:

1. Manser, E. & Lim, L. (1999) Roles of PAK family kinases. *Prog. Mol. Subcell. Biol.* 22:115-33.
2. Sells, M.A. et al. (1997) Human p21-activated kinase (Pak1) regulates actin organization in mammalian cells. *Curr. Biol.* 7:202-10.
3. Manser, E. et al. (1995) Molecular cloning ofa new member of the p21-Cdc42/Rac-activated kinas (PAK) family. *J. Biol. Chem.* 270:25070-8.
4. Bagrodia, S. et al. (1995) Identification of a murine p21Cdc42/Rac activated protein kinase (PAK). *J. Biol. Chem.* 270-22731-8.

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