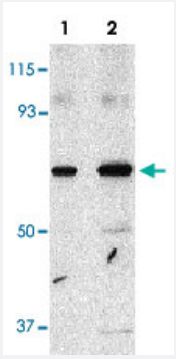
PAK4 polyclonal antibody

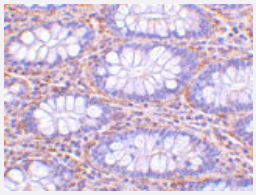
Catalog # PAB12892 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of PAK4 in SW480 cell lysate with PAK4 polyclonal antibody (Cat # PAB12892) at 1 and 2 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of PAK4 in human colon tissue with PAK4 polyclonal antibody (Cat # PAB12892) at 10 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PAK4.
Immunogen	A synthetic peptide corresponding to 13 amino acids near internal region of human PAK4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of PAK4 in SW480 cell lysate with PAK4 polyclonal antibody (Cat # PAB12892) at 1 and 2 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemistry of PAK4 in human colon tissue with PAK4 polyclonal antibody (Cat # PAB12892) at 10 ug/mL .

Gene Info — PAK4

Entrez GeneID	10298
Protein Accession#	NP_005875
Gene Name	PAK4
Gene Alias	-
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 4
Omim ID	605451
Gene Ontology	Hyperlink
Gene Summary	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 an d PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac a nd have been implicated in a wide range of biological activities. PAK4 interacts specifically with t he GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for thi s gene. [provided by RefSeq
Other Designations	p21(CDKN1A)-activated kinase 4|p21-activated kinase 4|protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs

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Publication Reference

- p21-Activated kinase 5 (Pak5) localizes to mitochondria and inhibits apoptosis by phosphorylating BAD.

  Cotteret S, Jaffer ZM, Beeser A, Chernoff J.

  Molecular and Cellular Biology 2003 Aug; 23(16):5526.

- p21-activated kinases: three more join the Pak.

  Jaffer ZM, Chernoff J.

  The International Journal of Biochemistry & Cell Biology 2002 Jul; 34(7):713.

- PAK4, a novel effector for Cdc42Hs, is implicated in the reorganization of the actin cytoskeleton and in the formation of filopodia.

  Abo A, Qu J, Cammarano MS, Dan C, Fritsch A, Baud V, Belisle B, Minden A.

  The EMBO Journal 1998 Nov; 17(22):6527.

Pathway

- Axon guidance
- ErbB signaling pathway
- Focal adhesion
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway

Disease

- Genetic Predisposition to Disease
- Parkinson disease

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