10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PAK6 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7931a

Specification

PAK6 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q9NQU5
Other Accession	NP_064553
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**74869**
Antigen Region	**116-146**

PAK6 Antibody - Additional Information

Gene ID 106821730;56924

Other Names
Serine/threonine-protein kinase PAK 6, PAK-5, p21-activated kinase 6, PAK-6, PAK6, PAK5

Target/Specificity
This PAK6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-146 amino acids from human PAK6.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PAK6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PAK6 Antibody - Protein Information

Name PAK6

Synonyms PAK5

Function Serine/threonine protein kinase that plays a role in the regulation of gene transcription. The kinase activity is induced by various effectors including AR or MAP2K6/MAPKK6. Phosphorylates the DNA-binding domain of androgen receptor/AR and thereby inhibits AR-mediated transcription. Also inhibits ESR1-mediated transcription. May play a role in cytoskeleton regulation by interacting with IQGAP1. May protect cells from apoptosis through phosphorylation of BAD.

Cellular Location
Cytoplasm. Nucleus. Note=Cotranslocates into nucleus with AR in response to androgen induction

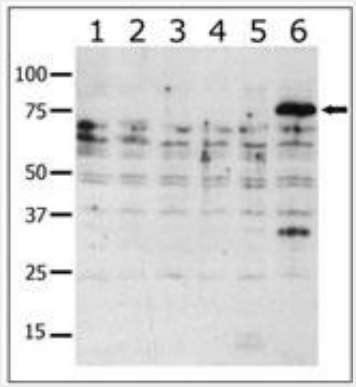
Tissue Location
Selectively expressed in brain and testis, with lower levels in multiple tissues including prostate and breast

PAK6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PAK6 Antibody - Images



Western blot analysis of anti-PAK6 Pab (Cat. #AP7931a) in lysates from transiently transfected COS7 cells. Lane 1: negative control, Lane 2: PAK1-expressing cells, Lane 3: PAK2-expressing cells, Lane 4: PAK4-expressing cells, Lane 5: PAK5-expressing cells, and Lane 6: PAK6-expressing cells. PAK6 (arrow) was detected using purified Pab. Data is kindly provided by Drs. Z.M. Jaffer and J. Chernoff from the Fox Chase Cancer Center (Philadelphia, PA).

PAK6 Antibody - Background

The PAK6 protein shares a high degree of sequence similarity with p21-activated kinase (PAK) family members. The proteins of this family are Rac/Cdc42-associated Ste20-like Ser/Thr protein kinases, characterized by a highly conserved amino-terminal Cdc42/Rac interactive binding (CRIB) domain and a carboxyl-terminal kinase domain. PAK kinases are implicated in the regulation of a number of cellular processes, including cytoskeleton rearrangement, apoptosis and the MAP kinase

signaling pathway. PAK6 was found to interact with androgen receptor (AR), which is a steroid hormone-dependent transcription factor that is important for male sexual differentiation and development. The p21-activated protein kinase 6 gene was found to be highly expressed in testis and prostate tissues and the encoded protein was shown to cotranslocate into the nucleus with AR in response to androgen.

PAK6 Antibody - References

Ching, Y.P., et al., J. Biol. Chem. 278(36):33621-33624 (2003). Pandey, A., et al., Oncogene 21(24):3939-3948 (2002). Yang, F., et al., J. Biol. Chem. 276(18):15345-15353 (2001).