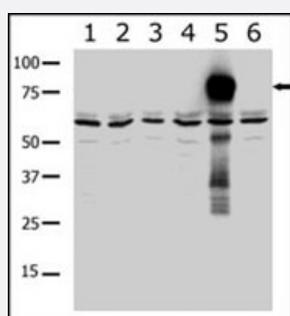


# PAK7 polyclonal antibody

Catalog # PAB2302      Size 400 uL

## Applications

### Western Blot (Transfected lysate)



Western blot analysis of PAK7 polyclonal antibody (Cat # PAB2302) in lysates from transiently transfected COS-7 cells.

Lane 1 : negative control.

Lane 2 : PAK1-expressing cells.

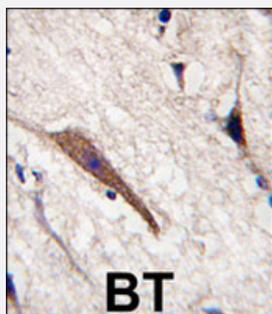
Lane 3 : PAK2-expressing cells.

Lane 4 : PAK4-expressing cells.

Lane 5 : PAK5-expressing cells.

Lane 6 : PAK6-expressing cells.

PAK5 (arrow) was detected using purified polyclonal antibody. Data is kindly provided by Drs. Z.M. Jaffer and J. Chernoff from the Fox Chase Cancer Center (Philadelphia, PA) .



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

Formalin-fixed and paraffin-embedded human brain tissue reacted with PAK7 polyclonal antibody (Cat # PAB2302) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of PAK7.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to amino acids 183-198 of human PAK7.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human

<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Recommend Usage</b>	Western Blot (1:1000) Immunoprecipitation (1:100) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western blot analysis of PAK7 polyclonal antibody (Cat # PAB2302) in lysates from transiently transfected COS-7 cells.

Lane 1 : negative control.

Lane 2 : PAK1-expressing cells.

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Lane 5 : PAK5-expressing cells.

Lane 6 : PAK6-expressing cells.

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- Immunoprecipitation

## Gene Info — PAK7

**Entrez GeneID** [57144](#)

**Protein Accession#** [Q9P286](#)

**Gene Name** PAK7

<b>Gene Alias</b>	KIAA1264, MGC26232, PAK5
<b>Gene Description</b>	p21 protein (Cdc42/Rac)-activated kinase 7
<b>Omim ID</b>	<a href="#">608038</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	<p>The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1 interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]</p>
<b>Other Designations</b>	OTTHUMP00000030258 OTTHUMP00000030259 OTTHUMP00000030260 p21(CDKN1A)-activated kinase 7 p21-activated kinase 7 protein kinase PAK5 serine/threonine-protein kinase PAK 7

## Publication Reference

- [PAK5 is a potential target in myelodysplastic syndrome through interacting with LMO2 and GATA1.](#)

Xiaoyan Pan, Dawei Liu, Minchao Ying, Gaoming Zheng, Chaoming Fan, Feng Pan, Qiang Ke.

Cellular and Molecular Biology (Noisy-le-Grand, France) 2022 Sep; 68(9):77.

Application: IF, Human, K562, THP1 cells

- [p21-activated kinases: three more join the Pak.](#)

Jaffer ZM, Chernoff J.

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

- [Cloning and characterization of PAK5, a novel member of mammalian p21-activated kinase-II subfamily that is predominantly expressed in brain.](#)

Pandey A, Dan I, Kristiansen TZ, Watanabe NM, Voldby J, Kajikawa E, Khosravi-Far R, Blagoev B, Mann M.

Oncogene 2002 May; 21(24):3939.

- [PAK5, a new brain-specific kinase, promotes neurite outgrowth in N1E-115 cells.](#)

Dan C, Nath N, Liberto M, Minden A.

Molecular and Cellular Biology 2002 Jan; 22(2):567.

## 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](#)
- [Kidney Failure](#)
- [Parkinson disease](#)
- [Tobacco Use Disorder](#)