

#### **PAK7 Antibody (Internal)**

Rabbit Polyclonal Antibody Catalog # ALS10916

## **Specification**

# PAK7 Antibody (Internal) - Product Information

Application IHC
Primary Accession O9P286
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 81kDa KDa

# PAK7 Antibody (Internal) - Additional Information

#### **Gene ID 57144**

#### **Other Names**

Serine/threonine-protein kinase PAK 7, 2.7.11.1, p21-activated kinase 5, PAK-5, p21-activated kinase 7, PAK-7, PAK-7, KIAA1264, PAK5

#### Target/Specificity

Human PAK7. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

# **Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

### **Precautions**

PAK7 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

# PAK7 Antibody (Internal) - Protein Information

Name PAK5 (<u>HGNC:15916</u>)

Synonyms KIAA1264, PAK7

#### **Function**

Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates the proto-oncogene RAF1 and stimulates its kinase activity. Promotes cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Phosphorylates CTNND1, probably to regulate cytoskeletal organization and cell morphology. Keeps microtubules stable through MARK2 inhibition and destabilizes the F-actin network leading to the disappearance of stress fibers and focal adhesions.





## **Cellular Location**

Mitochondrion. Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the mitochondria, and mitochondrial localization is essential for the role in cell survival

**Tissue Location** 

Predominantly expressed in brain.

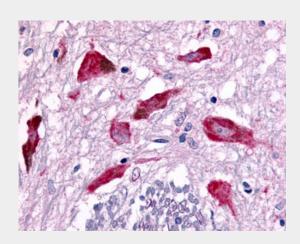
**Volume** 50 μl

# **PAK7 Antibody (Internal) - Protocols**

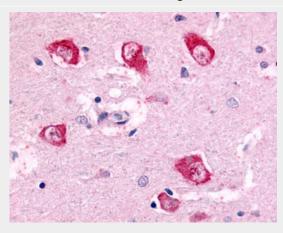
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# PAK7 Antibody (Internal) - Images

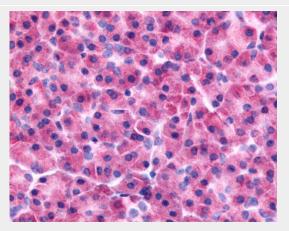


Anti-PAK7 antibody IHC of human brain, substantia nigra neurons.





# Anti-PAK7 antibody IHC of human brain, thalamus neurons.



Anti-PAK7 antibody ALS10916 IHC of human pancreas.

# PAK7 Antibody (Internal) - Background

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## **PAK7 Antibody (Internal) - References**

Pandey A.,et al.Oncogene 21:3939-3948(2002).

Nagase T.,et al.DNA Res. 6:337-345(1999).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Deloukas P.,et al.Nature 414:865-871(2001).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.