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

PAK7 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10916

Specification

PAK7 Antibody (Internal) - Product Information

Application	**IHC-P**
Primary Accession	Q9P286
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**81kDa KDa**
Dilution	**IHC-P~~N/A**

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, PAK7, 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 (HGNC:15916)

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.

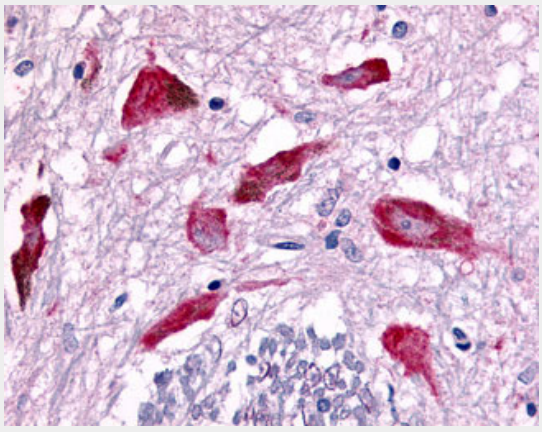
Volume
50 µl

PAK7 Antibody (Internal) - Protocols

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

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

PAK7 Antibody (Internal) - Images



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

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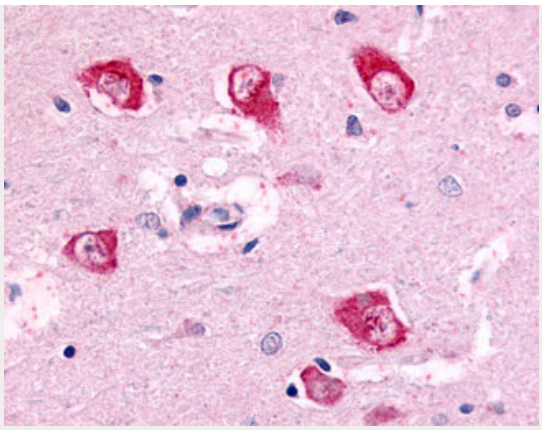
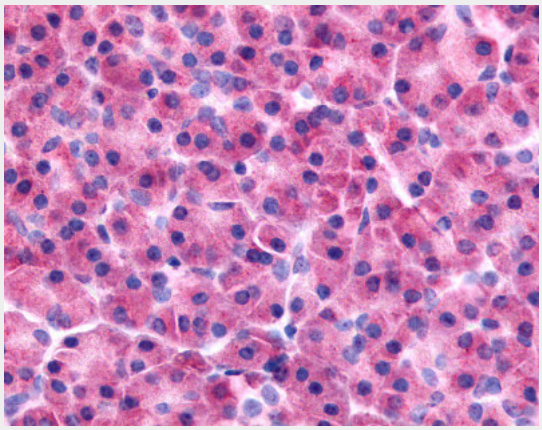


Anti-PAK7 antibody IHC of human brain, thalamus neurons.



Anti-PAK7 antibody ALS10916 IHC of human pancreas.

PAK7 Antibody (Internal) - Background

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.

PAK7 Antibody (Internal) - References

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Nagase T.,et al.DNA Res. 6:337-345(1999).
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Deloukas P.,et al.Nature 414:865-871(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.