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Anti-PAK5 Picoband Antibody

Catalog # ABO12419

Specification

Anti-PAK5 Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9P286
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Serine/threonine-protein kinase PAK 7(PAK7) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PAK5 Picoband Antibody - Additional Information

Gene ID 57144

Other Names
Serine/threonine-protein kinase PAK 5, 2.7.11.1, p21-activated kinase 5, PAK-5, p21-activated kinase 7, PAK-7, PAK5 (HGNC:15916), KIAA1264, PAK7

Calculated MW
80745 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

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

Tissue Specificity
Predominantly expressed in brain.

Protein Name
Serine/threonine-protein kinase PAK 7

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human PAK5 (26-55aa DPQEQKFTGLPQQWHSLLADTANRPKPMVD), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-PAK5 Picoband Antibody - 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.

Anti-PAK5 Picoband 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

Anti-PAK5 Picoband Antibody - Images

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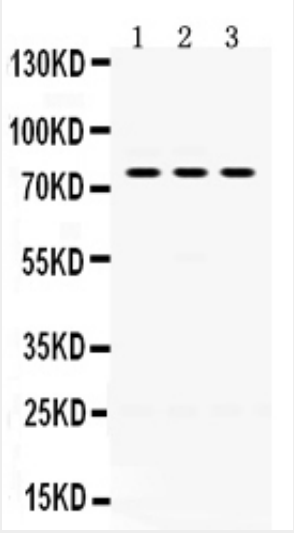
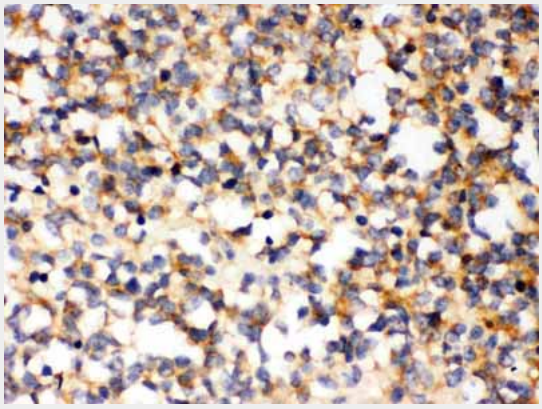


Anti- PAK5 Picoband antibody, ABO12419, Western blottingAll lanes: Anti PAK5 (ABO12419) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: U87 Whole Cell Lysate at 40ugPredicted bind size: 81KDObserved bind size: 81KD



Anti- PAK5 Picoband antibody, ABO12419, IHC(P)IHC(P): Human Glioma Tissue

Anti-PAK5 Picoband Antibody - Background

Serine/threonine-protein kinase PAK 7, also known as PAK5, is an enzyme that in humans is encoded by the PAK7 gene. 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. And this kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. In addition, 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.