

Anti-PAK5 Picoband Antibody

Catalog # ABO12419

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/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.
Source	Eukaryota
Protein Name	Serine/threonine-protein kinase PAK 7
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PAK5 (26-55aa DPQEQKFTGLPQQWHSLADTANRPKPMVD), 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 reconstitution, 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.

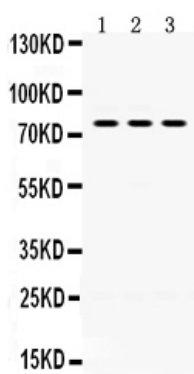
Protein Information

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.

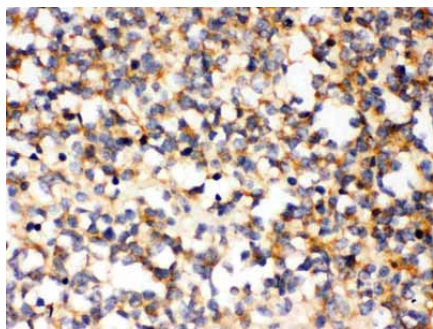
Background

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.

Images



Anti- PAK5 Picoband antibody, ABO12419, Western blotting
 All lanes: Anti PAK5 (ABO12419) at 0.5ug/ml
 Lane 1: Rat Brain Tissue Lysate at 50ug
 Lane 2: Mouse Brain Tissue Lysate at 50ug
 Lane 3: U87 Whole Cell Lysate at 40ug
 Predicted bind size: 81KD
 Observed bind size: 81KD



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.