

Product datasheet for **TA306115**

PAK5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 2 - 4 ug/mL, ICC: 2 ug/mL, IF: 10 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PAK5 antibody was raised against a 13 amino acid peptide from near the center of human PAK5.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	p21 (RAC1) activated kinase 7
Database Link:	NP_065074 Entrez Gene 57144 Human Q9P286



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Background:

The p21-activated kinases (PAKs) are serine-threonine kinases that bind to the active forms of Cdc42 and Rac. They are divided into two groups, the first of which include PAK1, 2 and 3, and can be activated by Cdc42/Rac binding. Group 1 PAKs contain an autoinhibitory domain whose activity is regulated by Cdc42/Rac binding. The group 1 PAKs are known to be involved in cellular processes such as gene transcription, apoptosis, and cell morphology and motility. Much less is known about the second group, which includes PAK4, 5 and 6. These proteins are not activated by Cdc42/Rac binding. PAK5 was initially identified as a kinase expressed primarily in brain that while possessing a kinase domain and GTPase binding domain similar to PAK4 and PAK6, is completely different from both. Expression of PAK5 in neural based cell lines resulted in neurite outgrowth suggesting that PAK5 may be involved in regulating the cytoskeletal changes necessary for promoting neurite outgrowth. Other experiments suggest that unlike the other PAKs, PAK5 may inhibit apoptosis by phosphorylating the Bcl-2 family member Bad.

Synonyms:

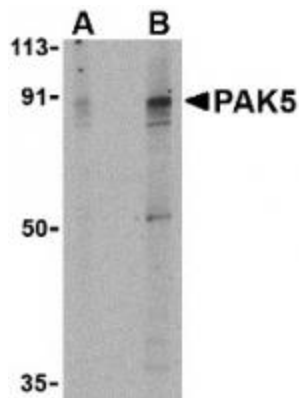
PAK5

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

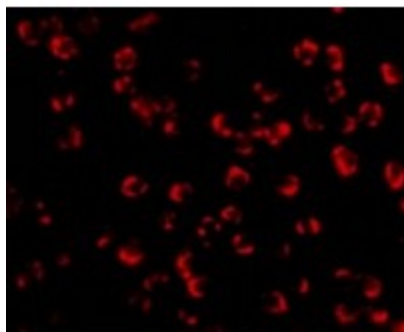
Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

Product images:

Western blot analysis of PAK5 in T24 lysate with PAK5 antibody at (A) 2 and (B) 4 ug/mL.



Immunocytochemistry of PAK5 in K562 cells with PAK5 antibody at 2 ug/mL.



Immunofluorescence of PAK5 in K562 cells with PAK5 antibody at 10 ug/mL.