

Anti-PAK5 Antibody

Catalog Number: A31791

About PAK7

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.

Overview

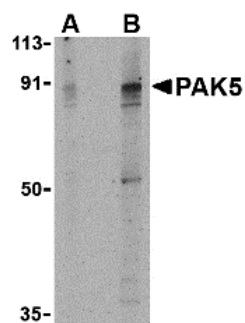
Product Name	Anti-PAK5 Antibody
Reactive Species	Human
Description	Boster Bio Anti-PAK5 Antibody (Catalog # A31791). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	PAK5 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PAK5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9P286

Technical Details

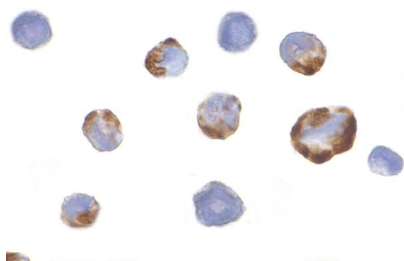
Immunogen	PAK5 antibody was raised against a 13 amino acid synthetic peptide from near the center of human PAK5. The immunogen is located within amino acids 240 - 290 of PAK5.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	It is predicted to not cross-react with other members of the cavin family.
Isotype	IgG
Form	Liquid

Concentration	1 mg/mL
Purification	PAK5 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>PAK5 antibody can be used for the detection of PAK5 by Western blot at 2 - 4 ug/mL. Antibody can also be used for immunocytochemistry starting at 2 ug/mL. For immunofluorescence start at 10 ug/mL.</p> <p>Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

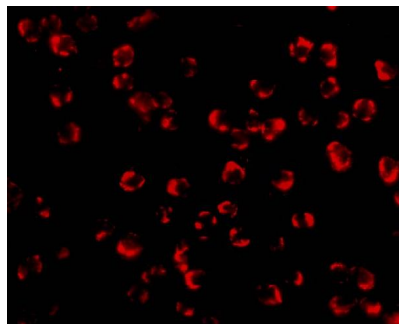
Anti-PAK5 Antibody (A31791) Images



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.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-PAK5 Antibody