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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PAK1 (Ab-212) Antibody

Catalog Number: A00454

About PAK1

The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.

Alexander K, et al. (2004) Mol Cell Biol; 24: 2808-2819
Thiel DA, et al. (2002) Curr Biol; 12:1227-1232
Rashid T, et al. (2001) J. Biol. Chem; 276: 49043 - 49052.

Overview

Product Name	Anti-PAK1 (Ab-212) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PAK1 (Ab-212) Antibody (Catalog # A00454). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal 8B1
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13153

Technical Details

Immunogen	Peptide sequence around aa. 210~214 (P-V-T-P-T) derived from Human PAK1.
Predicted Reactive Species	Bovine, Canine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

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Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Predicted MW: 68kd Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100 Immunofluorescence: 1:100~1:200

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Anti-PAK1 (Ab-212) Antibody (A00454) Images

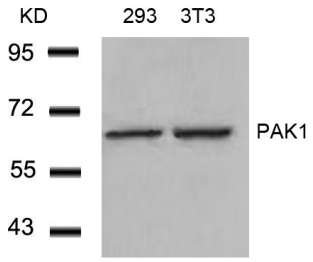
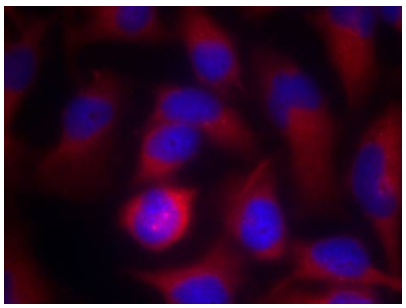


Figure 1. Western blot analysis of PAK1 using anti-PAK1 antibody (A00454).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PAK1 antigen affinity purified polyclonal antibody (Catalog # A00454) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for PAK1.



Immunofluorescence staining of methanol-fixed Hela cells using PAK1(Ab-212) Antibody #A00454.

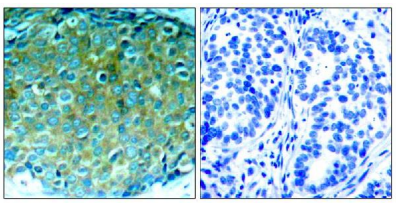


Figure 2. IHC analysis of PAK1 using anti-PAK1 antibody (A00454).
PAK1 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PAK1 Antibody (A00454) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.