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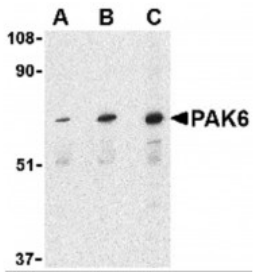
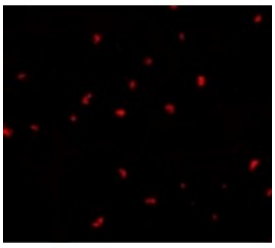
PAK6 Antibody

CATALOG NUMBER: 3073



Western blot analysis of PAK6 in Raji lysate with PAK6 antibody at (A) 1, (B) 2, and (C) 4 ug/mL.



Immunofluorescence of PAK6 in Raji cells with PAK6 antibody at 10 ug/mL.

Immunocytochemistry of PAK6 in Raji cells with PAK6 antibody at 10 ug/mL.

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	PAK6 antibody can be used for the detection of PAK6 by Western blot at 1 - 4 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1207 - Raji Cell Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 75 kDa Observed: 70 kDa
SPECIFICITY:	PAK6 antibody is predicted to not cross-react with other PAK family proteins.
IMMUNOGEN:	PAK6 antibody was raised against a 13 amino acid synthetic peptide from near the center of human PAK6. The immunogen is located within amino acids 260 - 310 of PAK6.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	PAK6 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	PAK6 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	PAK6 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	PAK6 Antibody: PAK5, PAK5, PAK-5, PAK-6
ACCESSION NO.:	NP_064553
PROTEIN GI NO.:	9910476
OFFICIAL SYMBOL:	PAK6
GENE ID:	56924

Background

BACKGROUND:	PAK6 Antibody: 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. PAK6 was initially identified as an androgen receptor in a yeast two hybrid screen and was found to be highly expressed in testis and prostate tissues. Later experiments have shown it to be activated by MAP kinase kinase 6 and p38 MAP kinase, suggesting that PAK6 may play a role in the cellular response to stress-related signals.
REFERENCES:	1) Jaffer ZM and Chernoff J. p21-activated kinases: three more join the Pak. Int. J. Biochem. Cell Biol. 2002; 34:713-7.
	2) Yang F, Li X, Sharma M, et al. Androgen receptor specifically interacts with a novel p21-activated kinase, PAK6. J. Biol. Chem. 2001; 276:15345-53.
	3) Kaur R, Liu X, Gjoerup O, et al. Activation of p21-activated kinase 6 by MAP kinase kinase 6 and p38 MAP kinase. J. Biol. Chem. 2005; 280:3323-30.

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