

Datasheet for ABIN7138426
anti-PAK2 antibody (pSer141)



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1 Image

Overview

Quantity:	100 µL
Target:	PAK2
Binding Specificity:	pSer141
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 141 (Y-L-S(p)-F-T) derived from Human PAK2.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	PAK2
Alternative Name:	PAK2 (PAK2 Products)

Target Details

Background:	<p>Background: Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell motility, cell cycle progression, apoptosis or proliferation. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Full-length PAK2 stimulates cell survival and cell growth. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Phosphorylates JUN and plays an important role in EGF-induced cell proliferation. Phosphorylates many other substrates including histone H4 to promote assembly of H3.3 and H4 into nucleosomes, BAD, ribosomal protein S6, or MBP. Additionally, associates with ARHGEF7 and GIT1 to perform kinase-independent functions such as spindle orientation control during mitosis. On the other hand, apoptotic stimuli such as DNA damage lead to caspase-mediated cleavage of PAK2, generating PAK-2p34, an active p34 fragment that translocates to the nucleus and promotes cellular apoptosis involving the JNK signaling pathway.</p> <p>Aliases: C-t-PAK2 antibody, CB422 antibody, EC 2.7.11.1 antibody, Gamma PAK antibody, Gamma-PAK antibody, hPAK65 antibody, Kinase antibody, p21 (CDKN1A) activated kinase 2 antibody, p21 (CDKN1A)-activated kinase 2a antibody, p21 activated kinase 2 antibody, p21 protein (Cdc42/Rac)-activated kinase 2 antibody, p21 protein Cdc42 Rac activated kinase 2 antibody, p21-activated kinase 2 antibody, p21-activated kinase, 65-KD antibody, p21-activated protein kinase I antibody, p21CDKN1A activated kinase 2 antibody, p27 antibody, p34 antibody, p58 antibody, p65PAK antibody, PAK 2 antibody, PAK-2 antibody, PAK-2p34 antibody, Pak2 antibody, PAK2_HUMAN antibody, PAK65 antibody, PAKgamma antibody, S6 H4 kinase antibody, S6/H4 kinase antibody, Serine threonine protein kinase PAK 2 antibody, Serine/threonine protein kinase PAK 2 antibody</p>
UniProt:	Q13177
Pathways:	MAPK Signaling , RTK Signaling , TCR Signaling , Fc-epsilon Receptor Signaling Pathway , Regulation of Lipid Metabolism by PPARalpha

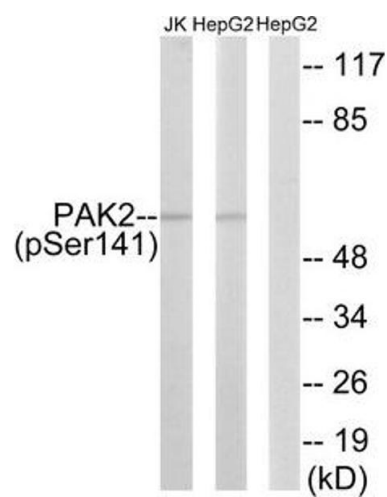
Application Details

Application Notes:	WB:1:500-1:3000,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from HepG2 cells treated with Adriamycin (0.5uM, 24hours) and Jurkat cells treated with PMA (125 ng/mL, 30 mins) using PAK2 (Phospho-Ser141) antibody. The lane on the right is treated with the synthesized peptide.