

Datasheet for ABIN7138803
anti-PAK1 antibody (pThr212)

3 Images

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Overview

Quantity:	100 µL
Target:	PAK1
Binding Specificity:	pThr212
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 212 (P-V-T(p)-P-T) derived from Human PAK1.
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:	PAK1
Alternative Name:	PAK1 (PAK1 Products)

Target Details

Background: Background: 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.

Aliases: ADRB2 antibody, Alpha PAK antibody, Alpha-PAK antibody, MGC130000 antibody, MGC130001 antibody, p21 activated kinase 1 antibody, p21 protein (Cdc42/Rac) activated kinase 1 antibody, p21-activated kinase 1 antibody, p21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related) antibody, p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast) antibody, p65 PAK antibody, p65-PAK antibody, P68-PAK antibody, PAK alpha antibody, PAK-1 antibody, Pak1 antibody, PAK1_HUMAN antibody, Paka antibody, PAKalpha antibody, Protein kinase MUK2 antibody, Rac/p21-activated kinase antibody, Serine/threonine-protein kinase PAK 1 antibody, STE20 homolog yeast antibody

UniProt: [Q13153](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Skeletal Muscle Fiber Development](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Embryonic Body Morphogenesis](#)

Application Details

Application Notes: WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

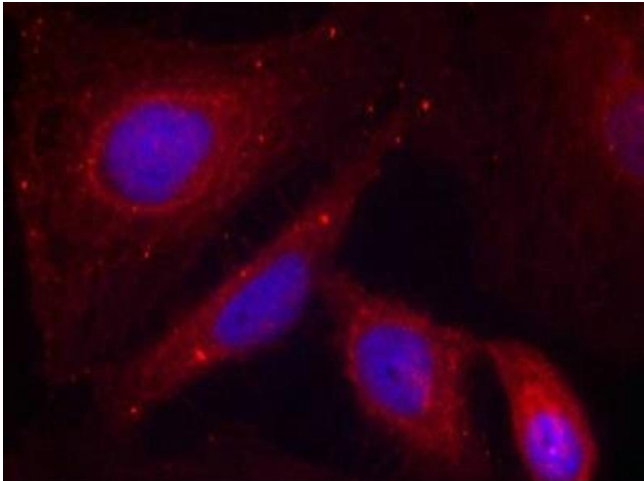
Buffer: Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Handling

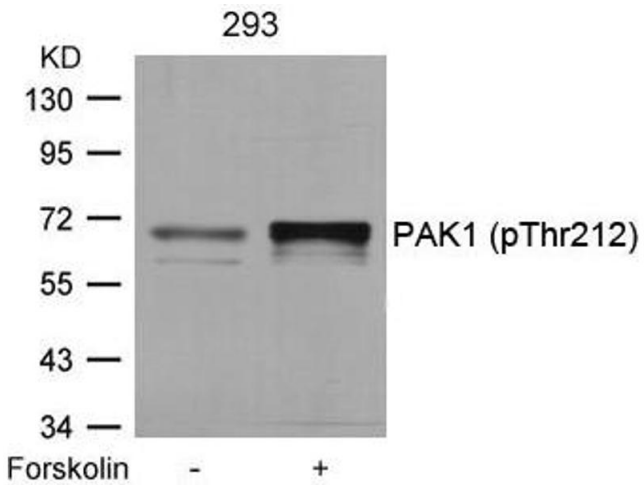
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



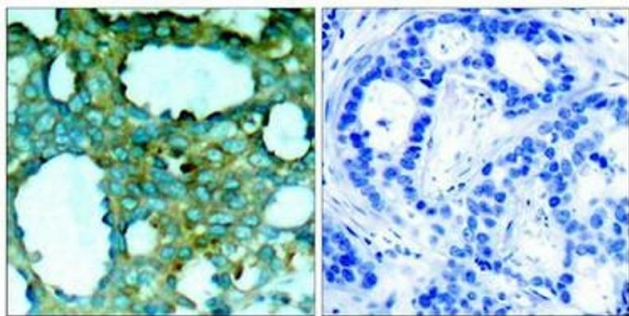
Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed HeLa cells using PAK1(Phospho-Thr212) Antibody.



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells untreated or treated with forskolin using PAK1(Phospho-Thr212) Antibody.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PAK1(Phospho-Thr212) Antibody(left) or the same antibody preincubated with blocking peptide(right).