

Datasheet for ABIN7180065

anti-PAK1/2/3 antibody (Thr402, Thr421, Thr423)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µL
Target:	PAK1/2/3
Binding Specificity:	Thr402, Thr421, Thr423
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1/2/3 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Western Blotting (WB)

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human PAK1/2/3 around the phosphorylation site of threonine 423/402/421 (R-S-T(p)-M-V).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	PAK1/2/3
Alternative Name:	PAK1/PAK2/PAK3 (PAK1/2/3 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 migration, or cell cycle regulation. Plays a role in dendrite spine morphogenesis as well as synapse formation and plasticity. 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. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Additionally, phosphorylates TNNI3/troponin I to modulate calcium sensitivity and relaxation kinetics of thin myofilaments. May also be involved in early neuronal development.</p> <p>Bernadett Boda, J. Neurosci., Dec 2004, 24: 10816 - 10825.</p> <p>Donna L. McPhie, J. Neurosci., Jul 2003, 23: 6914.</p> <p>Jin-Hun Jung, J. Biol. Chem., Dec 2005, 280: 40025 - 40031.</p> <p>Guo-Lei Zhou, Mol. Cell. Biol., Nov 2003, 23: 8058 - 8069.</p> <p>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</p>
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UniProt:	Q13153
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Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
Restrictions:	For Research Use only

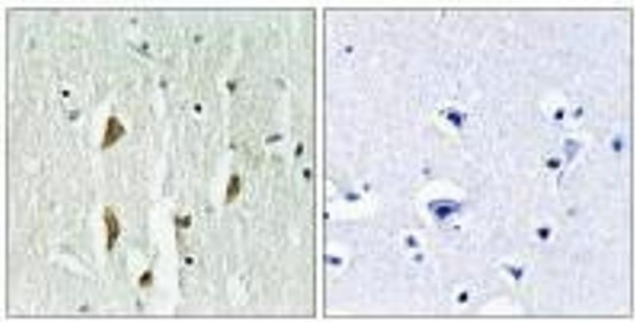
Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Handling

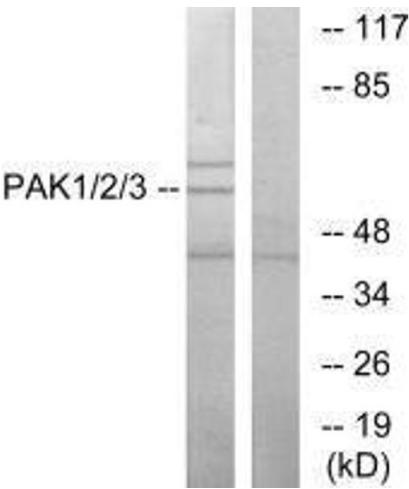
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



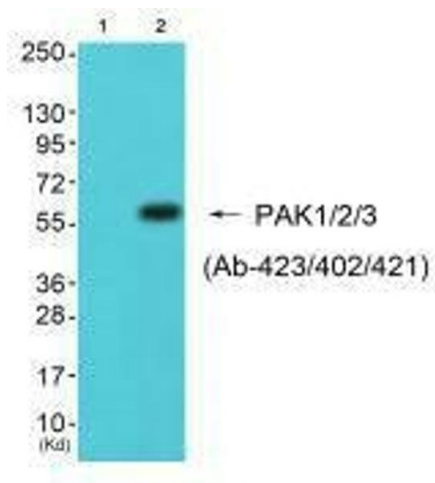
Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue using PAK1/2/3 (Ab-423/402/421) antibody.



Western Blotting

Image 2. Western blot analysis of extracts from NIH-3T3 cells, using PAK1/2/3 (Ab-423/402/421) antibody.



Western Blotting

Image 3. Western blot analysis of extracts from 293 cells (Lane 2), using PAK1/2/3 (Ab-423/402/421) antibody. The lane on the left is treated with synthesized peptide.