

# PAK1/PAK2/PAK3 (Ab-423/402/421) Antibody



PACO23612

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## Product Information

**Size:**

100ul

**Reactivity:**

Human, Mouse, Rat

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC

**Recommended dilutions:**

ELISA:1:2000-1:10000, WB:1:500-1:3000,  
IHC:1:50-1:100

**Protein 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.

**Gene ID:**

PAK1/PAK2/PAK3

**Uniprot**

Q13153/Q13177/O75914

**Synonyms:**

EC 2.7.11.1; Gamma-PAK; P21-activated kinase 2; PAK 2; PAK-2

**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).

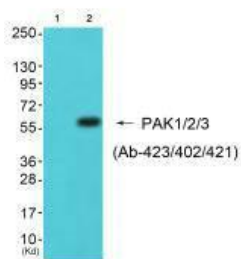
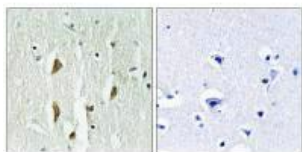
**Storage:**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

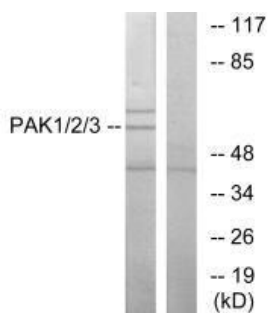
## Product Images

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



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.



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