

Product datasheet

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ARG51663 anti-PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421) antibody

Package: 100 μl, 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421)

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name PAK1 / PAK2 / PAK3

Species Human

Immunogen Peptide sequence around phosphorylation site of threonine 423 /402/421 (R-S-T(p)-M-V) derived from

Human PAK1/PAK2/PAK3.

Conjugation Un-conjugated

Alternate Names beta-PAK; bPAK; MRX30; PAK3beta; OPHN3; Oligophrenin-3; MRX47; Serine/threonine-protein kinase

PAK 3; EC 2.7.11.1; PAK-3; p21-activated kinase 3; Beta-PAK

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:200
	IHC-P	1:50 - 1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.	
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.	
Preservative	0.02% Sodium azide	
Stabilizer	50% Glycerol	
Concentration	1 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot	

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol PAK3

Gene Full Name p21 protein (Cdc42/Rac)-activated kinase 3

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.

Function 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 Factin 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. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Microbiology and

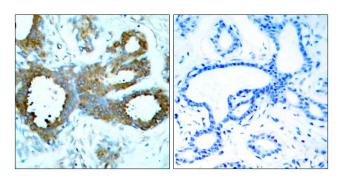
Infectious Disease antibody; Neuroscience antibody; Signaling Transduction antibody

Calculated Mw 62 kD

PTM Autophosphorylated when activated by CDC42/p21.

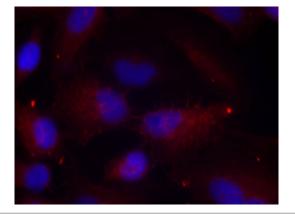
Neddylated.

Images



ARG51663 anti-PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51663 anti-PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51663 anti-PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421) antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with ARG51663 anti-PAK1 / PAK2 / PAK3 phospho (Thr423 / Thr402 / Thr421) antibody.