

Product datasheet

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ARG42665 anti-PAK3 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes PAK3

Tested Reactivity Hu, Ms, Rat
Tested Application IHC-P, WB

Specificity ARG42665 anti-PAK3 antibody reacts to PAK1 with low binding affinity and not react to PAK2.

Host Rabbit

Clonality Polyclonal

Isotype IgG
Target Name PAK3

Species Human

Immunogen Synthetic peptide within aa. 1-50 of Human 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
	IHC-P	1:50 - 1:200
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human fetal brain	
Observed Size	~ 60 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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.

Bioinformation

Gene Symbol PAK3

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

Background The protein encoded by this gene is a serine-threonine kinase and forms an activated complex with GTP-

bound RAS-like (P21), CDC2 and RAC1. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of a non-syndromic form of X-linked intellectual disability. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2017]

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 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. [UniProt]

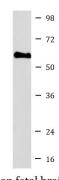
Calculated Mw 62 kDa

PTM Autophosphorylated when activated by CDC42/p21.

Neddylated. [UniProt]

Cellular Localization Cytoplasm. [UniProt]

Images



ARG42665 anti-PAK3 antibody WB image

Western blot: Human fetal brain lysate stained with ARG42665 anti-PAK3 antibody.

Human fetal brain