ARG64016
anti-PAK1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PAK1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Dog
Tested Application	WB
Specificity	No cross-reactivity exptected with PAK3
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PAK1
Species	Human
Immunogen	C-NTEKQKKKPKMSDE
Conjugation	Un-conjugated
Alternate Names	PAKalpha; Serine/threonine-protein kinase PAK 1; Alpha-PAK; p65-PAK; EC 2.7.11.1; PAK-1; p21-activated kinase 1

Application Instructions

Application table

Application	Dilution
WB	0.5 - 1.5 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

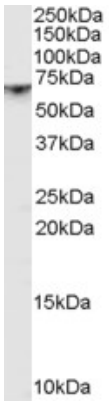
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

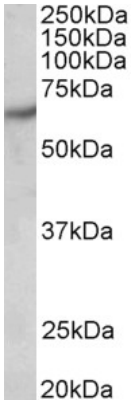
Database links	GeneID: 29431 Rat GeneID: 5058 Human Swiss-port # P35465 Rat Swiss-port # Q13153 Human
Background	This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]
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	61 kDa
PTM	Autophosphorylated in trans, meaning that in a dimer, one kinase molecule phosphorylates the other one. Activated by autophosphorylation at Thr-423 in response to a conformation change, triggered by interaction with GTP-bound CDC42 or RAC1. Activated by phosphorylation at Thr-423 by BRSK2 and by PDPK1. Phosphorylated by JAK2 in response to PRL; this increases PAK1 kinase activity. Phosphorylated at Ser-21 by PKB/AKT; this reduces interaction with NCK1 and association with focal adhesion sites.

Images



ARG64016 anti-PAK1 antibody WB image

Western Blot: Rat Brain lysate (35 µg protein in RIPA buffer) stained with ARG64016 anti-PAK1 antibody at 1 µg/ml dilution.



ARG64016 anti-PAK1 antibody WB image

Western blot: 35 µg of Human brain (cerebral cortex) lysate (in RIPA buffer) stained with ARG64016 anti-PAK1 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.