

Rabbit PAK3 Polyclonal Antibody | anti-PAK3 antibody

Phospho-PAK3(Ser154) Antibody

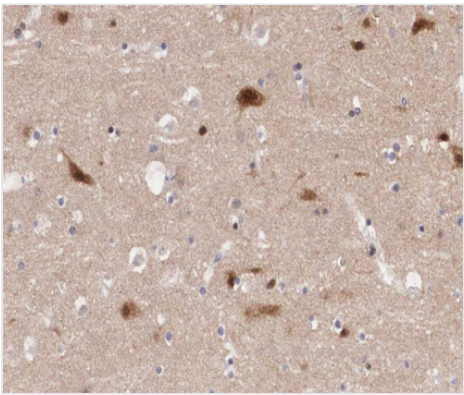
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320738	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

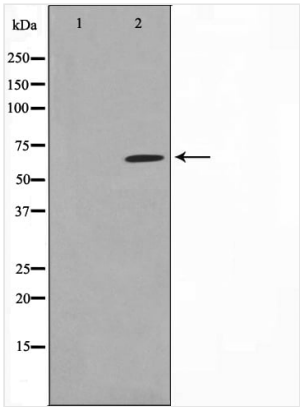
PAK3; Polyclonal Antibody; Phospho-PAK3(Ser154) Antibody; Alpha PAK; Beta PAK; bPAK; CDKN1A; Gamma PAK; hPAK3; MRX30; MRX47; Oligophrenin 3; OPHN3; P21 (CDKN1A) activated kinase 2; P21 (CDKN1A) activated kinase 3; p21 activated kinase 1; p21 activated kinase 2; p21 activated kinase 3; P21 protein (Cdc42/Rac) activated kinase 1; P21 protein (Cdc42/Rac) activated kinase 2; P21 protein (Cdc42/Rac) activated kinase 3; P21/Cdc42/Rac1 activated kinase 1 (STE20 homolog; yeast); P21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related); P58; P65 PAK; PAK 2; PAK 3; PAK1; PAK2; PAK3beta; PAK65; PAKalpha; PAKgamma; S6/H4 kinase; Serine/threonine protein kinase PAK 1; Serine/threonine protein kinase PAK 2; Serine/threonine protein kinase PAK 3; Serine/threonine protein kinase PAK1; Serine/threonine protein kinase PAK2; Serine/threonine protein kinase PAK3; STE20 homolog; yeast; anti-PAK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-PAK3(Ser154) antibody detects endogenous levels of PAK3 only when phosphorylated at Sersine 154
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	544
Applicable Applications for anti-PAK3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PAK3 around the phosphorylation site of Sersine 154
Subcellular Location	Cytoplasm. Recruited to focal adhesions upon activation
Tissue Specificity	Restricted to the nervous system. Highly expressed in postmitotic neurons of the developing and postnatal cerebral cortex and hippocampus.
Conjugation	Unconjugated
Epitope	Phospho Ser154
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA320738 at 1/200 staining human Cerebellum tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on rat heart cell lysate using Phospho-PAK3(Ser154) Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PAK3 antibody	Description: PAK3 a protein kinase of the STE20 family that regulates synapse formation and plasticity in the hippocampus. May be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Forms an activated complex with GTP-bound P21, CDC2 and RAC1 proteins. Missense and truncation mutations linked to nonsyndromic mental retardation type 30 (MRX30). Two alternatively spliced human isoforms have been reported. Note: This description may include information from UniProtKB. 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. Subunit Structure: Interacts tightly with GTP-bound but not GDP-bound CDC42/p21 and RAC1. Shows highly specific binding to the SH3 domains of phospholipase C-gamma and of adapter protein NCK. Interacts with the C-terminal of APP (By similarity). Interacts with ARHGEF6 and ARHGEF7. Post-translational Modifications: Autophosphorylated when activated by CDC42/p21. Neddylated. Similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	189491751
NCBI GeneID	5063
NCBI Accession #	NP_001121638.1
NCBI GenBank Nucleotide #	NM_001128166.2
UniProt Accession #	O75914; Q5JWX1; Q5JWX2; Q7Z2D6; Q7Z2E4; Q7Z3Z8; Q8WWK5; Q8WX23; A8K389; B1GX77; B1GX78; B1GX79
Molecular Weight	Observed: 72 kDa Predicted: 63 kDa
NCBI Official Full Name	serine/threonine-protein kinase PAK 3 isoform a
NCBI Official Synonym Full Names	p21 (RAC1) activated kinase 3
NCBI Official Symbol	PAK3

NCBI Official Synonym Symbols	ARA; bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta; beta-PAK
NCBI Protein Information	serine/threonine-protein kinase PAK 3
UniProt Protein Name	Serine/threonine-protein kinase PAK 3
UniProt Gene Name	PAK3
UniProt Synonym Gene Names	OPHN3; PAK-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pak3-antibody-immunohistochemistry-western-blot-elisa/320738>