

Rabbit Pak3 Polyclonal Antibody | anti-Pak3 antibody

Mouse Pak3 Antibody (N-term)

CATALOG # AAA287890	HOST Rabbit	REACTIVITY Mouse Predicted Reactivity: Human, Rat, Xenopus	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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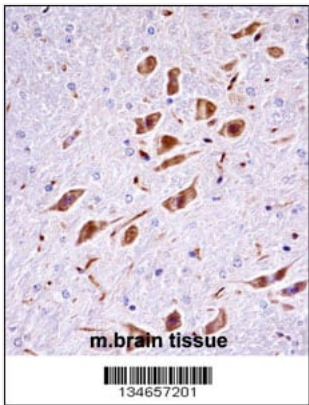
PRODUCT SYNONYMS

Pak3; Polyclonal Antibody; Mouse Pak3 Antibody (N-term); Serine/threonine-protein kinase PAK 3; Beta-PAK; CDC42/RAC effector kinase PAK-B; p21-activated kinase 3; PAK-3; Pak-3; Pakb; Stk4; anti-Pak3 antibody

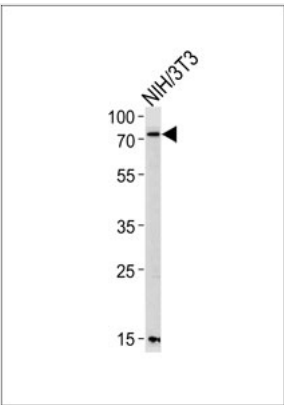
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse Predicted Reactivity: Human, Rat, Xenopus
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Mouse Pak3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 124-152 amino acids from the N-terminal region of mouse Pak3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	124-152
Sequence Length	544
Applicable Applications for anti-Pak3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Calculated MW	62398
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.
Cellular location	Cytoplasm
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

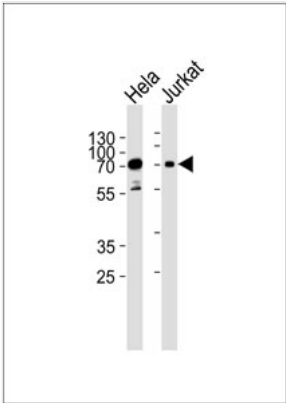
IMAGES



IHC (Immunohistochemisry)
Mouse Pak3 Antibody (N-term) (AAA287890)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Pak3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from mouse NIH/3T3 cell line, using Mouse Pak3 Antibody (N-term). AAA287890 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



WB (Western Blot)
Western blot analysis of lysates from HeLa, Jurkat cell line (from left to right), using Mouse Pak3 Antibody (N-term). AAA287890 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-Pak3 antibody	Key regulator of synapse formation and plasticity in the hippocampus.
References	Shimogori, T., et al. Nat. Neurosci. 13(6):767-775(2010) Jiang, X.S., et al. Hum. Mol. Genet. 19(7):1347-1357(2010) Demyanenko, G.P., et al. Neuroscience 165(1):107-115(2010) Grimsley-Myers, C.M., et al. J. Neurosci. 29(50):15859-15869(2009) Sansom, S.N., et al. PLoS Genet. 5 (6), E1000511 (2009) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	304307785
NCBI GeneID	18481
NCBI Accession #	NP_001181977.1; NP_001181978.1; NP_032804.2
NCBI GenBank Nucleotide #	NM_001195048.1
UniProt Accession #	Q61036; O88645; Q8K1R5; Q8K1R6

NCBI Official Full Name	serine/threonine-protein kinase PAK 3 isoform C
NCBI Official Synonym Full Names	p21 protein (Cdc42/Rac)-activated kinase 3
NCBI Official Symbol	Pak3
NCBI Official Synonym Symbols	Stk4; PAK-3; Pak65beta; Pak65alpha
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	Pak-3; Pakb; Stk4; PAK-3
UniProt Entry Name	PAK3_MOUSE

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/287890>