

Rabbit PAK4/5/6 Polyclonal Antibody | anti-PAK4/5/6 antibody

Phospho-PAK4/5/6 (Ser474) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329631	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PAK4/5/6; Polyclonal Antibody; Phospho-PAK4/5/6 (Ser474) Antibody; KIAA1142; p21 activated kinase 4; p21 Cdc42/Rac1-actiated kinase 4; P21 protein (Cdc42/Rac) activated kinase 4; p21 (CDKN1A) activated kinase 4; p21-activated kinase 4; PAK 4; PAK-4; Pak4; PAK4_HUMAN; Protein kinase related to S.cerevisiae STE20 effector for Cdc42Hs; Serine threonine kinase PAK 4; Serine/threonine protein kinase PAK 4; Serine/threonine protein kinase PAK4; Serine/threonine-protein kinase PAK 4; EC 2.7.11.1; KIAA1264; MGC26232; p21 activated kinase 7; p21 protein (Cdc42/Rac)-activated kinase 7; p21 (CDKN1A) activated kinase 7; p21-activated kinase 5; p21-activated kinase 7; PAK 5; PAK 7; PAK-5; PAK-7; PAK5; PAK7; PAK7_HUMAN; Protein kinase PAK5; Serine/threonine protein kinase PAK 7; Serine/threonine-protein kinase PAK 7; CDKN1A activated kinase 6; EC 2.7.1.37; p21 activated protein kinase 6; p21 protein (Cdc42/Rac)-activated kinase 6; p21 (CDKN1A) activated kinase 6; p21-activated kinase 6; p21activated kinase 6; PAK 6; PAK-6; Pak6; PAK6_HUMAN; Serine threonine protein kinase PAK 6; Serine/threonine protein kinase PAK 6; Serine/threonine protein kinase PAK6; Serine/threonine-protein kinase PAK 6; anti-PAK4/5/6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PAK4/5/6 (Ser474) Antibody detects endogenous levels of PAK4/5/6 only when phosphorylated at Ser474. Tissue Specificity: Selectively expressed in brain and testis, with lower levels in multiple tissues including prostate and breast.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PAK4/5/6 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PAK4/5/6 around the phosphorylation site of Ser474.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated. Phosphorylated by MAP2K6//MAPKK6, leading to PAK6 activation.
Subunit Structure	Interacts tightly with GTP-bound but not GDP-bound CDC42/p21 and RAC1 (By similarity). Interacts with the androgen receptor AR and the estrogen receptor ESR1. Interacts with IQGAP1 and PPM1B.
Similarity	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.
Subcellular Location	Cytoplasm. Nucleus. Note: Cotranslocates into nucleus with AR in response to androgen induction.

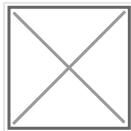
Preparation and Storage

Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of PAK4/5/6 (Phospho-Ser474) using TNF treated HeLa whole cell lysates. -/+ means absence or presence of N peptide¼ non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from various samples, using Phospho-PAK4/5/6 (Ser474) Antibody.Lane 1: VERO cells(heat shock treatment), blocked with antigen-specific peptides,Lane 2: VERO cells(heat shock treatment),Lane 3: Mouse heart.Observed bands: 72kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PAK4/5/6 antibody	Serine/threonine protein kinase that plays a role in the regulation of gene transcription. The kinase activity is induced by various effectors including AR or MAP2K6/MAPKK6. Phosphorylates the DNA-binding domain of androgen receptor/AR and thereby inhibits AR-mediated transcription. Inhibits also ESR1-mediated transcription. May play a role in cytoskeleton regulation by interacting with IQGAP1. May protect cells from apoptosis through phosphorylation of BAD.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62422554
NCBI GeneID	10298
NCBI Accession #	NP_001014831.1
NCBI GenBank Nucleotide #	NM_001014831.2
UniProt Accession #	O96013; Q9P286; Q9NQU5
Molecular Weight	64,072 Da
NCBI Official Full Name	serine/threonine-protein kinase PAK 4 isoform 1
NCBI Official Synonym Full Names	p21 protein (Cdc42/Rac)-activated kinase 4
NCBI Official Symbol	PAK4
NCBI Protein Information	serine/threonine-protein kinase PAK 4; PAK-4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 4; protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs
UniProt Protein Name	Serine/threonine-protein kinase PAK 4
UniProt Gene Name	PAK4
UniProt Synonym Gene Names	KIAA1142; PAK-4
UniProt Entry Name	PAK4_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/pak4-5-6-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329631>