

Rabbit PAK5/6 Polyclonal Antibody | anti-PAK5/6 antibody

Phospho-PAK5/6 (Ser602/Ser560) Antibody

CATALOG # AAA31281	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

PAK5/6; Polyclonal Antibody; Phospho-PAK5/6 (Ser602/Ser560) Antibody; 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 5; PAK 6; PAK-5; PAK-6; PAK5; 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; 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 7; PAK-7; PAK7; PAK7_HUMAN; Protein kinase PAK5; Serine/threonine protein kinase PAK 7; Serine/threonine-protein kinase PAK 7; anti-PAK5/6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PAK5/6 (Ser602/Ser560) Antibody detects endogenous levels of PAK5/6 only when phosphorylated at Ser602/560. 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-PAK5/6 antibody	IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human PAK5/6 around the phosphorylation site of Ser602/560.
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 (Immunohistochemistry)
At 1/100 staining Human prostate cancer and adjacent normal tissues 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.



IHC (Immunohistochemistry)
At 1/100 staining Human gastric cancer and adjacent normal tissues 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.



IHC (Immunohistochemistry)
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.



IHC (Immunohistochemistry)
At 1/100 staining Human prostate 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.



IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer and adjacent normal tissues 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.



IHC (Immunohistochemistry)
At 1/100 staining Human kidney 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.

ADDITIONAL INFORMATION

Related Product Information for anti-PAK5/6 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 #	24308191
NCBI GeneID	57144
NCBI Accession #	NP_065074.1
NCBI GenBank Nucleotide #	NM_020341.3
UniProt Accession #	Q9P286; Q9NQU5
Molecular Weight	80,745 Da
NCBI Official Full Name	serine/threonine-protein kinase PAK 7
NCBI Official Synonym Full Names	p21 protein (Cdc42/Rac)-activated kinase 7
NCBI Official Symbol	PAK7
NCBI Official Synonym Symbols	PAK5
NCBI Protein Information	serine/threonine-protein kinase PAK 7; PAK-5; PAK-7; protein kinase PAK5; p21-activated kinase 5; p21-activated kinase 7; p21CDKN1A-activated kinase 7; serine/threonine-protein kinase PAK7

UniProt Protein Name	Serine/threonine-protein kinase PAK 7
UniProt Gene Name	PAK7
UniProt Synonym Gene Names	KIAA1264; PAK5; PAK-5; PAK-7
UniProt Entry Name	PAK7_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pak5-6-antibody-immunohistochemistry-peptide-elisa-elisa/31281>