PAK4/5/6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAK4/5/6, Polyclonal Antibody
Full Product Name	PAK4/5/6 (Phospho-Ser474) Polyclonal Conjugated Antibody
Product Gene Name	anti-PAK4/5/6 antibody
Product Synonym Gene Name	PAK5, PAK6
Product Synonym Names	PAK4/5/6 (Phospho-Ser474) Conjugated Antibody; PAK4; KIAA1142; p21 (CDKN1A)-activated kinase 4; PAK-4; p21-activated kinase 4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	PAK4/5/6 (Phospho-Ser474) antibody detects endogenous levels of PAK4/5/6 only when phosphorylated at Ser474
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	64,072 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (39616420..39670046). Location: 19q13.2
OMIM	605451
3D Structure	ModBase 3D Structure for O96013
Immunogen	A synthesized peptide derived from human PAK4/5/6 (Phospho-Ser474)
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PAK4/5/6 antibody	Most Applications
Application Notes for anti-PAK4/5/6 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PAK4/5/6 antibody	MBS9437766 is an antibody targeting PAK4/5/6. Also known as PAK4/5/6 (Phospho-Ser474) Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PAK4/5/6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAK4/5/6. It may not necessarily be applicable to this product.

NCBI GI #	62422554
NCBI GeneID	10298
NCBI Accession #	NP_001014831.1
UniProt Primary Accession #	O96013
UniProt Secondary Accession #	Q8N4E1; Q8NCH5; Q8NDE3; Q9BU33; Q9ULS8; B4DGG6
UniProt Related Accession #	O96013
GenBank Nucleotide #	NM_001014831.2
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
UniProt Protein Name	Serine/threonine-protein kinase PAK 4
UniProt Synonym Protein Names	p21-activated kinase 4
UniProt Gene Name	PAK4
UniProt Synonym Gene Names	KIAA1142; PAK-4
UniProt Entry Name	PAK4_HUMAN
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
NCBI Summary for PAK4/5/6	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for PAK4/5/6	PAK4: a protein kinase of the STE20 family. A mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Interacts specifically with the GTP-bound form of Cdc42 and weakly activates the JNK family of MAP kinases. Overexpressed in several cancers. Required for ras-dependent anchorage-independent growth of tumor cell lines. Four alternatively spliced human isoforms have been reported. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, STE; EC 2.7.11.1; STE group; STE20 family; PAKB subfamily Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: Golgi apparatus; focal adhesion Molecular Function: protein binding; ATP binding; protein kinase activity; receptor signaling protein serine/threonine kinase activity Biological Process: cell proliferation; cell migration; apoptosis; cytoskeleton organization and biogenesis; mitotic cell cycle; cell motility; cell growth; signal transduction; protein amino acid phosphorylation
Research Articles on PAK4/5/6	**1.** Interaction between PAK4 and MMP-2 regulated anoikis, cell migration and invasion in glioma.
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