

Anti-PAK-1,2,3 (Thr402) Antibody

Our Anti-PAK-1,2,3 (Thr402) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions
Catalog # AN1508

Product Information

Application	WB
Primary Accession	P35465
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	60578

Additional Information

Gene ID	29431
Other Names	Alpha PAK antibody, Beta PAK antibody, bPAK antibody, CDKN1A antibody, Gamma PAK antibody, hPAK3 antibody, MRX30 antibody, MRX47 antibody, Oligophrenin 3 antibody, OPHN3 antibody, P21 (CDKN1A) activated kinase 2 antibody, P21 (CDKN1A) activated kinase 3 antibody, p21 activated kinase 1 antibody, p21 activated kinase 2 antibody, p21 activated kinase 3 antibody, P21 protein (Cdc42/Rac) activated kinase 1 antibody, P21 protein (Cdc42/Rac) activated kinase 2 antibody, P21 protein (Cdc42/Rac) activated kinase 3 antibody, P21/Cdc42/Rac1 activated kinase 1 (STE20 homolog yeast) antibody, P21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related) antibody, P58 antibody, P65 PAK antibody, PAK 2 antibody, PAK 3 antibody, PAK1 antibody, PAK2 antibody, PAK3 antibody, PAK3beta antibody, PAK65 antibody, PAKalpha antibody, PAKgamma antibody, S6/H4 kinase antibody, Serine/threonine protein kinase PAK 1 antibody, Serine/threonine protein kinase PAK 2 antibody, Serine/threonine protein kinase PAK 3 antibody, Serine/threonine protein kinase PAK1 antibody, Serine/threonine protein kinase PAK2 antibody, Serine/threonine protein kinase PAK3 antibody, STE20 homolog yeast antibody
Target/Specificity	In mammals, there are several identified isoforms of p21-activated protein kinases or PAKs: α -PAK (also known as PAK-1) and β -PAK (also known as PAK-3) are mostly brain-specific, while γ -PAK (also known as PAK-2) is expressed ubiquitously (Jakobi et al., 2003). Mutations of the gene coding for PAK-3 are associated with X-linked mental retardation and recent work indicates that PAK-3 is a key regulator of synapse formation and plasticity in the hippocampus (Boda et al., 2004). PAK-3 is thought to play a key role in regulation of cell shape and motility as well as cell death (Jakobi et al., 2003; Walter et al., 1998). Autophosphorylation of Thr-402 in the protein has been found to be essential for activation of PAK (Jakobi et al., 2000).
Dilution	WB~1:1000
Format	Antigen Affinity Purified from Pooled Serum

Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-PAK-1,2,3 (Thr402) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

In mammals, there are several identified isoforms of p21-activated protein kinases or PAKs: α -PAK (also known as PAK-1) and β -PAK (also known as PAK-3) are mostly brain-specific, while γ -PAK (also known as PAK-2) is expressed ubiquitously (Jakobi et al., 2003). Mutations of the gene coding for PAK-3 are associated with X-linked mental retardation and recent work indicates that PAK-3 is a key regulator of synapse formation and plasticity in the hippocampus (Boda et al., 2004). PAK-3 is thought to play a key role in regulation of cell shape and motility as well as cell death (Jakobi et al., 2003; Walter et al., 1998). Autophosphorylation of Thr-402 in the protein has been found to be essential for activation of PAK (Jakobi et al., 2000).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.