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Datasheet for 612-401-E05

PAK 1/2/3 phospho T402 Antibody

Overview

Description:	Anti-PAK 1/2/3 pT402 (RABBIT) Antibody - 612-401-E05
Item No.:	612-401-E05
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	PAK 1/2/3 pT402 Antibody detects PAK 1/2/3 pT402 proteins. 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 -PAK (also known as PAK-2) is expressed ubiquitously. 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. PAK-3 is thought to play a key role in regulation of cell shape and motility as well as cell death. Autophosphorylation of Thr402 in the protein has been found to be essential for activation of PAK. Anti-PAK 1/2/3 pT402 Antibody is ideal for investigators involved in Neuroscience and Apoptosis research.
Synonyms:	Serine/threonine-protein kinase PAK 1, Alpha-PAK, Protein kinase MUK2, p21-activated kinase 1, p68-PAK
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Pak1/2/3
Reactivity:	Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PAK 1/2/3 pT402 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Thr402.
Purity/Specificity:	Anti-PAK 1/2/3 pT402 antibody is directed against rat PAK protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification and is specific for the phosphorylated protein. The immunolabeling of PAK is completely eliminated by lambda-phosphatase treatment. Reactivity is expected from the following species based on 100% sequence homology: bovine, canine, human and mouse. Cross reactivity with PAK from other species has not been determined.
Relevant Links:	• UniProtKB - Q62829 • UniProtKB - P35465 • GeneID - 29431 • UniProtKB - Q64303

Application Details

Tested Applications:	WB
Application Note:	Anti-PAK 1/2/3 pT402 Antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 68-70 kDa in size corresponding to PAK proteins phosphorylated at Thr402 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

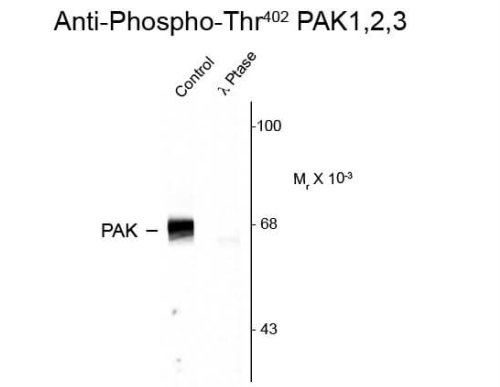
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western blot of rat hippocampal lysate showing phosphospecific immunolabeling of the ~68k to ~70k PAK protein phosphorylated at Thr402.

Western Blot
Western Blot of Rabbit anti-PAK 1/2/3 pT402 antibody. Lane 1: rat hippocampal lysate (control). Lane 2: λ-Ptase. Load: 10 µg per lane. Primary antibody: PAK 1/2/3 pT402 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 68-70 kDa for PAK 1/2/3 pT402. Other band(s): none.

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