

Datasheet for ABIN105217

anti-PAK1/2/3 antibody (pThr423)



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1 Image

Overview

Quantity:	100 µg
Target:	PAK1/2/3
Binding Specificity:	pThr423
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB), Dot Blot (DB)

Product Details

Purpose:	PAK 1/2/3 phospho T423 Antibody
Immunogen:	Immunogen: Human PAK 1/2/3 phospho peptide corresponding to a region of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH). Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human PAK (p21-GTPase Activated Protein Kinase).
Characteristics:	Synonyms: rabbit anti-PAK pT423 antibody, rabbit anti-PAK1/2/3 pT423 antibody, PAK1, PAK-1, PAK 1, Alpha PAK, p21-activated kinase 1, p65-PAK, PAK2, PAK-2, PAK 2, PAK65, S6/H4 kinase, p21-activated kinase 2, p58, Gamma PAK, PAK3, PAK-3, PAK 3, Beta PAK, CDC42/RAC effector kinase PAK-B, p21-activated kinase 3
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.

Product Details

Sterility: Sterile filtered

Target Details

Target: PAK1/2/3

Alternative Name: PAK 1/2/3 ([PAK1/2/3 Products](#))

Background: Background: The p21-activated kinases (PAKs) are a family of multifunctional serine/threonine kinases involved in a variety of cell functions including stress response, apoptosis and regulation of cell motility and tumor metastasis. Mammalian PAKs are called 1, 2, 3 or α , β , γ respectively. PAKs are part of a large family of kinases where the catalytic domain of the kinase is related to Ste20 kinase of *S. cerevisiae*. Pak activity is regulated by specific binding of GTP-bound Rac and cdc42 GTPases and also by sphingosine and related lipids. PAK1 activation is induced by a variety of growth factors and G-protein-coupled receptors, Fc receptors, and integrins. This antibody is specific for the phosphorylated form of PAK 1/2/3. The selected peptide sequence used to generate the polyclonal antibody is common to all human PAKs.

Gene ID: 5058

UniProt: [Q13153](#)

Application Details

Application Notes: Application Note: This phospho specific polyclonal antibody was tested by Dot blot and ELISA and was found to be reactive with the phosphorylated form of the immunizing peptide and minimally reactive with the non-phosphorylated form of the immunizing peptide. Although not tested, this antibody is likely functional in immunohistochemistry, immunoblotting, and immunoprecipitation. Lysates from Jurkat cells or PAK transfected cells may be used as a control. This product has been assayed against 0.1 μ g of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenzidine) code # TMBE-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:5,000 to 1:25,000 is suggested for this product. Less than 0.2 % cross-reactivity was detected against the non-phosphorylated form of the immunizing peptide. Researchers should determine optimal titers for other applications.

Western Blot Dilution: 1:500 - 1:2,000

ELISA Dilution: 1:4,000 - 1:20,000

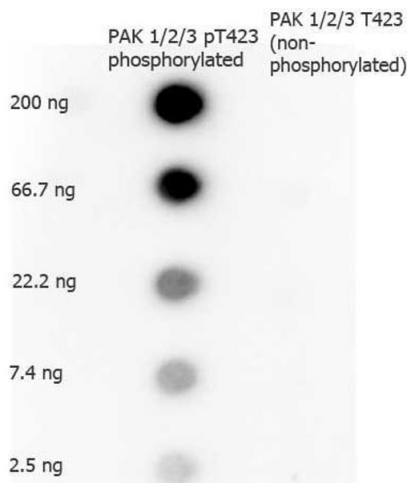
Other: User Optimized

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1.94 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Dot Blot

Image 1. Dot Blot of Rabbit anti-PAK 1/2/3 pT423 antibody. Antigen: phosphorylated and non-phosphorylated forms of the immunizing peptide. Load: 200 ng, 66.7 ng, 22.2 ng, 7.4 ng, or 2.5 ng as indicated. Primary antibody: PAK 1/2/3 pT423 antibody at 1:1,000 overnight at 4°C. Secondary antibody: 488 rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting (ABIN925618) for 60 min at RT.