Datasheet for ABIN105217

anti-PAK1/2/3 antibody (pThr423)

1 Image

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Overview

Quantity:	100 µg
Target:	PAK1/2/3
Binding Specificity:	pThr423
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK1/2/3 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Western Blotting (WB)

Product Details

Immunogen:	Human PAK 1/2/3 phospho peptide corresponding to a region of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	PAK1/2/3
Alternative Name:	PAK 1/2/3 (PAK1/2/3 Products)
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 a, g, b respectively. PAKs

Target Details

	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. Synonyms: Alpha PAK antibody, Gamma PAK antibody, Beta PAK antibody
Gene ID:	5058
UniProt:	Q13153

Application Details

Application Notes:	This phospho specific polyclonal antibody was tested by 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 immuno-precipitation. Lysates from Jurkat cells or PAK transfected cells may be used as a control.This product has been assayed against 0.1 µg of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenizidine) 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 o f the immunizing peptide. Researchers should determine optimal titers for other applications. This product has been assayed against 0.1 µg of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenizidine) should determine optimal titers for other applications. This product has been assayed against 0.1 µg of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenizidine) 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 o f the immunizing peptide. Researchers should determine optimal titers for other applications. This product has been assayed against 0.1 µg of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenizidine) 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 o f the immunizing peptide. Researchers should determine optimal titers for other applications. This product has been assayed against 0.1 µg of phosphorylated peptide in a standard capture ELISA using TMB (3,3',5,5'-Tetramethylbenizidine) as a substrate for 30 minutes at room temperature. A working dilution of 1:5,000 to 1:25,000 is suggested for this

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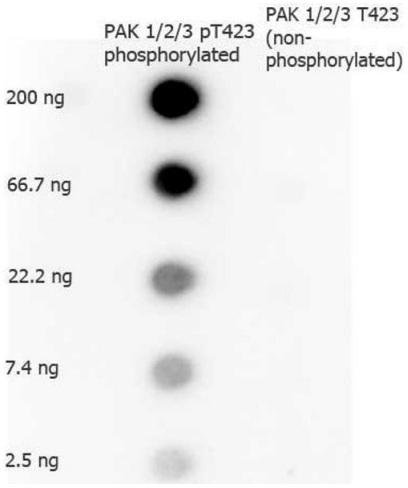
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.94 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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:	-20 °C

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.