

Product datasheet

Anti-PAK1 + PAK2 + PAK3 (phospho T402) antibody  
ab30577

1 Image

Overview

<b>Product name</b>	Anti-PAK1 + PAK2 + PAK3 (phospho T402) antibody
<b>Description</b>	Rabbit polyclonal to PAK1 + PAK2 + PAK3 (phospho T402)
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab30577 recognises PAK1 + PAK2 + PAK3 (phospho T402).
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic Phosphopeptide corresponding to amino acid residues surrounding the phospho Thr402 of rat p21 Activated Kinase 2 (PAK2). The peptide sequence used is identical in PAK1, 2 and 3.
<b>Positive control</b>	Rat hippocampal lysate
<b>General notes</b>	Note: Thr402 in PAK2 corresponds to Thr423 in human PAK1.  Autophosphorylation of Thr402 in the protein has been found to be essential for activation of PAK.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, 0.1mg/ml BSA, 150mM Sodium chloride, 10mM HEPES. pH 7.5
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab30577 was purified by sequential chromatography on phospho and dephosphopeptide affinity columns.
<b>Primary antibody notes</b>	Autophosphorylation of Thr402 in the protein has been found to be essential for activation of PAK.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab30577** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 68 kDa (predicted molecular weight: 60 kDa).

## Target

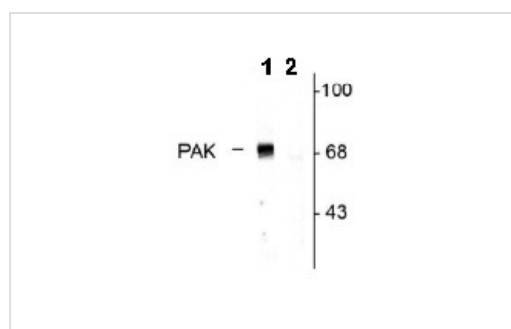
### Relevance

In mammals, there are several identified isoforms of p21 Activated Protein Kinases or PAKs: PAK1 and PAK3 are mostly brain specific, while PAK2 is expressed ubiquitously. Mutations of the gene coding for PAK3 are associated with X linked mental retardation and PAK3 is a key regulator of synapse formation and plasticity in the hippocampus. PAK3 is thought to play a key role in regulation of cell shape and motility as well as cell death.

### Cellular localization

Cytoplasm. Recruited to focal adhesions upon activation

## Images



Western blot - Anti-PAK1 + PAK2 + PAK3 (phospho T402) antibody (ab30577)

**All lanes :** Anti-PAK1 + PAK2 + PAK3 (phospho T402) antibody (ab30577) at 1/1000 dilution

**Lane 1 :** untreated rat hippocampal lysate

**Lane 2 :** rat hippocampal lysate, pretreated with 1200 units lambda Ptase for 30 min (negative control)

**Predicted band size:** 60 kDa

**Observed band size:** 68 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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