

Product datasheet

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

1 Image

Overview

Product name	Anti-PAK1 + PAK2 + PAK3 (phospho T402) antibody
Description	Rabbit polyclonal to PAK1 + PAK2 + PAK3 (phospho T402)
Host species	Rabbit
Specificity	ab30577 recognises PAK1 + PAK2 + PAK3 (phospho T402).
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	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.
Positive control	Rat hippocampal lysate
General notes	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

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.50 Constituents: 0.238% HEPES, 50% Glycerol, 0.87% Sodium chloride, 0.01% BSA
Purity	Immunogen affinity purified
Purification notes	ab30577 was purified by sequential chromatography on phospho and dephosphopeptide affinity columns.
Primary antibody notes	Autophosphorylation of Thr402 in the protein has been found to be essential for activation of PAK.
Clonality	Polyclonal
Isotype	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

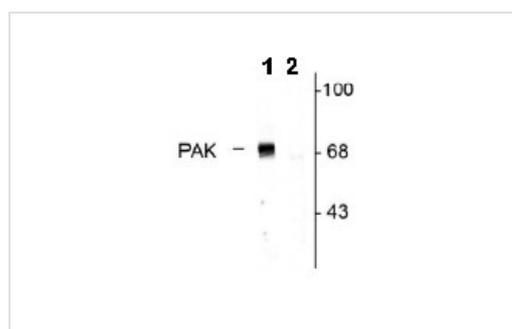
Relevance

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

[why is the actual band size different from the predicted?](#)

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