

## Product datasheet

### Anti-PAK1 (phospho T212) antibody ab75599

★★★★★ [1 Abreviews](#) [12 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-PAK1 (phospho T212) antibody
<b>Description</b>	Rabbit polyclonal to PAK1 (phospho T212)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human PAK1 (phospho T212). <a href="#">Run BLAST with Expasy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Extracts from 293 cells treated with forskolin (40μM, 30min). Human breast carcinoma tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS  Without Mg <sup>2+</sup> and Ca <sup>2+</sup>
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab75599 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against the non-phosphopeptide was removed by chromatography using a non-phosphopeptide corresponding to the phosphorylation site.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab75599 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
ICC/IF		1/100 - 1/200.
WB	★★★★★ (1)	1/500 - 1/1000. Predicted molecular weight: 61 kDa.
IHC-P		1/50 - 1/100.

## Target

### Function

The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.

### Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain.  
Contains 1 protein kinase domain.

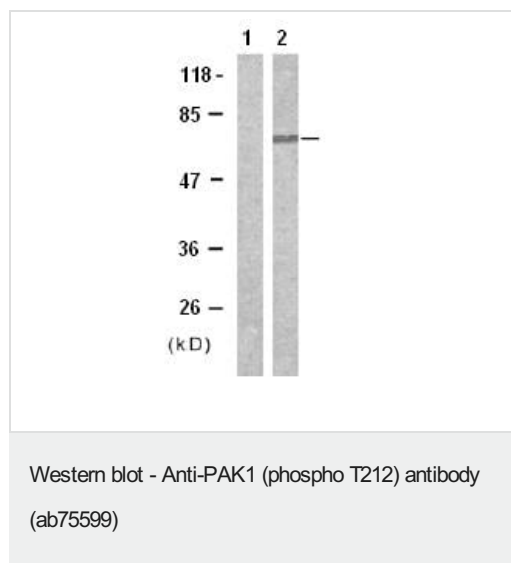
### Post-translational modifications

Autophosphorylated when activated by CDC42/p21 and RAC1.

### Cellular localization

Cytoplasm. Cell junction > focal adhesion. Recruited to focal adhesions upon activation.

## Images



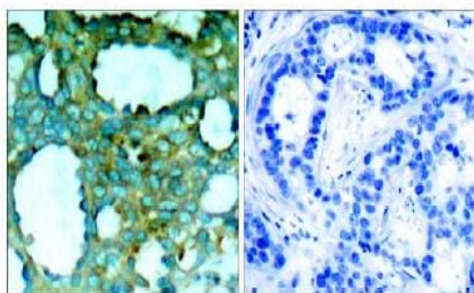
**All lanes :** Anti-PAK1 (phospho T212) antibody (ab75599) at 1/500 dilution

**Lane 1 :** Extracts from 293 cells (untreated)

**Lane 2 :** Extracts from 293 cells treated with forskolin (40μM, 30min),

**Predicted band size:** 61 kDa

**Observed band size:** 65 kDa



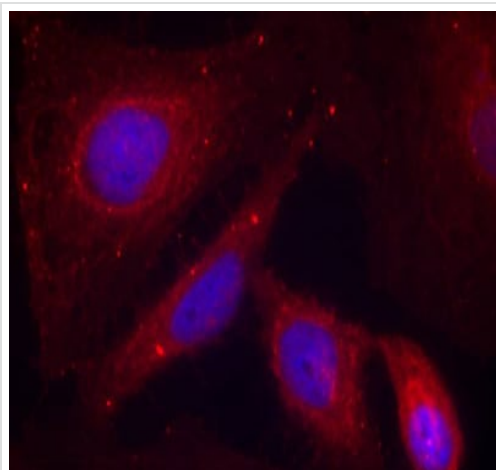
P-Peptide

-

+

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAK1 (phospho T212) antibody (ab75599)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ab75599, at 1/50 dilution, in the absence (left panel) and presence (right panel) of the immunising phosphopeptide.



Immunocytochemistry/ Immunofluorescence - Anti-PAK1 (phospho T212) antibody (ab75599)

ab75599 at 1/100 dilution staining PAK1 (phospho T212) in HeLa cells by ICC/IF (MeOH fixation).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors