



## Product datasheet

### Anti-PAK1 + PAK2 + PAK3 antibody ab131547

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#### Overview

<b>Product name</b>	Anti-PAK1 + PAK2 + PAK3 antibody
<b>Description</b>	Rabbit polyclonal to PAK1 + PAK2 + PAK3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide conjugated to KLH, corresponding to a region around amino acids 421-425/400-404/419-423 (RSTMV) of Human PAK1 + PAK2 + PAK3 (UniProt Q13153/Q13177/O75914-2). <a href="#"> Run BLAST with</a> <a href="#"> Run BLAST with</a>
<b>Positive control</b>	HeLa cells; 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), 49% PBS, 0.88% Sodium chloride  PBS without Mg <sup>2+</sup> and Ca <sup>2+</sup>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab131547 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
IHC-P		1/50 - 1/100.
ICC/IF		1/100 - 1/200.

## Target

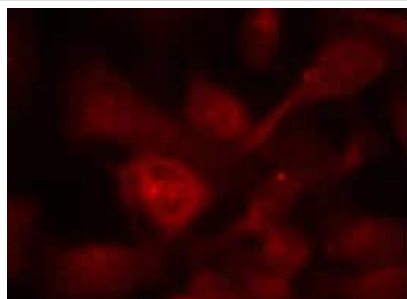
### Relevance

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

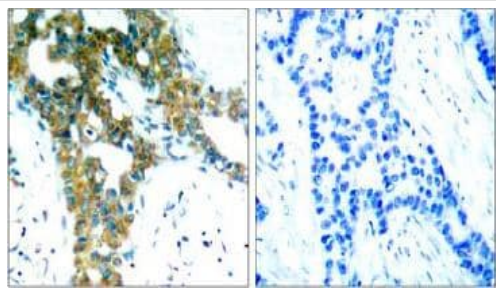
Cytoplasm. Recruited to focal adhesions upon activation

## Images



Immunofluorescent analysis of methanol-fixed HeLa cells labelling PAK1 + PAK2 + PAK3 with ab131547 at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-PAK1 + PAK2 + PAK3 antibody (ab131547)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAK1 + PAK2 + PAK3 antibody (ab131547)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labelling PAK1 + PAK2 + PAK3 with ab131547 at 1/50 dilution (left) or ab131547 preincubated with blocking peptide (right).

**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

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- 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.

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