

## Product datasheet

# Anti-MAPK4 antibody ab96816

[1 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-MAPK4 antibody
<b>Description</b>	Rabbit polyclonal to MAPK4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Cow 
<b>Immunogen</b>	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 296 of MAPK4 (NP_002738).
<b>Positive control</b>	WB: H1299 whole cell lysate; A431, HeLaS3, HepG2, MOLT4 and Raji cell lysates ICC/IF: HeLa cell
<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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
<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 ab96816 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		1/500 - 1/3000. Predicted molecular weight: 66 kDa.
ICC/IF		1/100 - 1/200.

## Target

### Function

Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK4/MAPK4 is phosphorylated at Ser-186 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK4/MAPK4. May promote entry in the cell cycle.

### Tissue specificity

High expression in heart and brain.

### Sequence similarities

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.

Contains 1 protein kinase domain.

### Domain

The FRIEDE motif is required for docking MAPKAPK5.

In contrast to classical MAPKs, the TXY motif within the activation loop is replaced by the SEG motif, whose phosphorylation activates the MAP kinases.

### Post-translational modifications

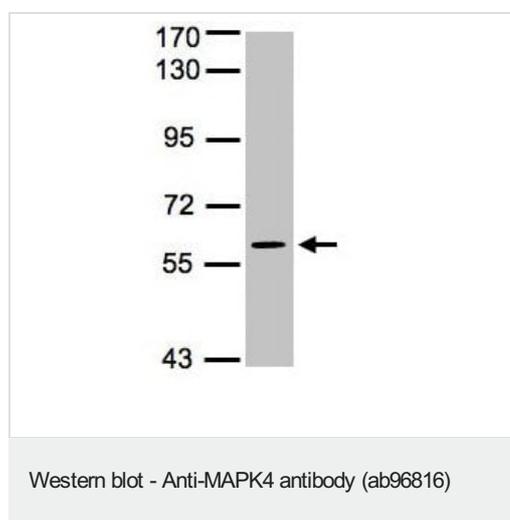
Phosphorylated at Ser-186 by PAK1, PAK2 and PAK3 resulting in catalytic activation.

Phosphorylated by MAPKAPK5 at other sites.

### Cellular localization

Cytoplasm. Nucleus. Translocates to the cytoplasm following interaction with MAPKAPK5.

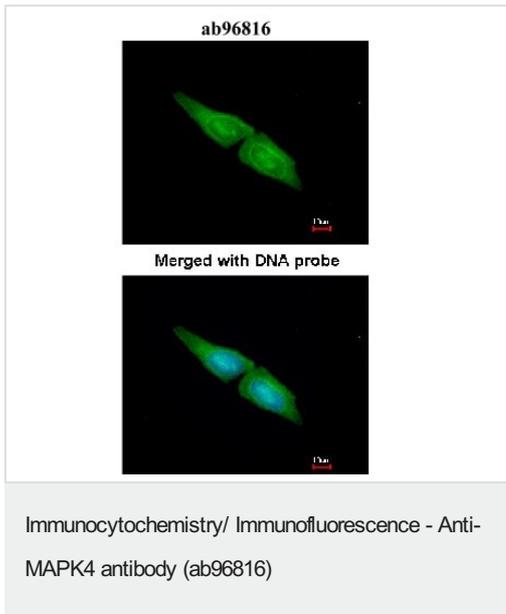
## Images



Anti-MAPK4 antibody (ab96816) at 1/1000 dilution + H1299 whole cell lysate at 30 µg

**Predicted band size:** 66 kDa

7.5% SDS Page



Immunofluorescence analysis of MAPK4 in paraformaldehyde fixed HeLa, using ab96816 at a 1/200 dilution.

The lower image was merged with DNA probe.

**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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