


## Product datasheet

# Anti-MAPK4 antibody ab96816

[2 Images](#)

### Overview

<b>Product name</b>	Anti-MAPK4 antibody
<b>Description</b>	Rabbit polyclonal to MAPK4
<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

### Properties

<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>	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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

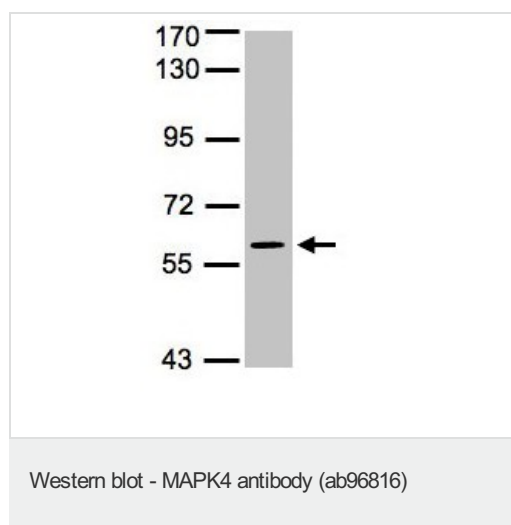
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<b>Function</b>	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon 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.
<b>Tissue specificity</b>	High expression in heart and brain.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	Phosphorylated at Ser-186 by PAK1, PAK2 and PAK3 resulting in catalytic activation. Phosphorylated by MAPKAPK5 at other sites.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Translocates to the cytoplasm following interaction with MAPKAPK5.

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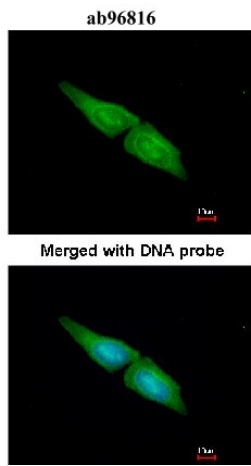
## Images

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

**Predicted band size : 66 kDa**



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

The lower image was merged with DNA probe.

Immunocytochemistry/ Immunofluorescence -  
MAPK4 antibody (ab96816)

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