

## Product datasheet

# Anti-JNK1 antibody ab61190

[1 Image](#)

### Overview

<b>Product name</b>	Anti-JNK1 antibody
<b>Description</b>	Mouse monoclonal to JNK1
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Recombinant fragment <b>Predicted to work with:</b> Human
<b>Immunogen</b>	JNK1 tagged recombinant full length protein (Human).
<b>Positive control</b>	Recombinant protein.

### 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: None Constituents: PBS, pH 7.2
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2a

### Applications

Our [Abpromise guarantee](#) covers the use of **ab61190** 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
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WB

ELISA

<b>Application notes</b>	ELISA: Use at an assay dependent dilution. WB: Use at a concentration of 1 - 5 µg/ml. Detects a band of approximately 70 kDa (predicted
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molecular weight: 48 kDa).

This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## Target

### Function

Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).

JNK1 isoforms display different binding patterns: beta-1 preferentially binds to c-Jun, whereas alpha-1, alpha-2, and beta-2 have a similar low level of binding to both c-Jun or ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms.

### Sequence similarities

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

Contains 1 protein kinase domain.

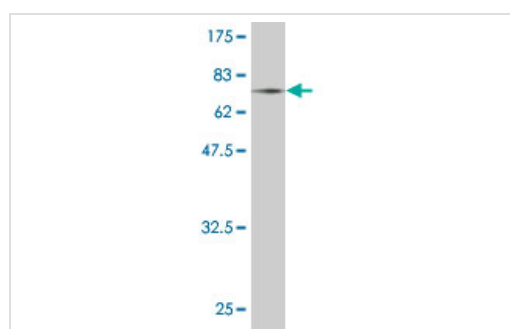
### Domain

The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

### Post-translational modifications

Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme.

## Images



Western blot - JNK1 antibody (ab61190)

Anti-JNK1 antibody (ab61190) at 1 µg/ml + recombinant protein at 0.2 µg

### Secondary

Goat Anti-Mouse IgG (H&L)-HRP at 1/5000 dilution

**Predicted band size** : 48 kDa

**Observed band size** : 70 kDa

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