

## Product datasheet

# Anti-JNK1 + JNK2 (phospho T183 + Y185) antibody ab131499

★★★★☆ [1 Abreviews](#) [23 References](#) [2 Images](#)

### Overview

---

<b>Product name</b>	Anti-JNK1 + JNK2 (phospho T183 + Y185) antibody
<b>Description</b>	Rabbit polyclonal to JNK1+JNK2 (phospho T183 + Y185)
<b>Host species</b>	Rabbit
<b>Specificity</b>	The region of JNK1 and JNK2 surrounding T183 + Y185 has a high degree of similarity to the corresponding regions in JNK3 and thus may cross react with this protein if phosphorylated on the corresponding residues.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human JNK1 + JNK2 (phospho T183 + Y185). Synthetic peptide from around the phosphorylation sites of threonine 183/tyrosine 185 (M-M-T(p)-P-Y(p)-V - V ) of Human JNK1 + JNK2 (NP_002741.1, NP_001128516.1, NP_002744.1) <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>

### General notes

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.

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&As

### 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: 48% PBS, 0.88% Sodium chloride, 50% Glycerol  PBS without Mg <sup>2+</sup> and Ca <sup>2+</sup>

<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was purified by affinity chromatography using epitope-specific phosphopeptide. Non-phosphospecific antibodies were removed by chromatography using non-phosphopeptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab131499 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		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/500 - 1/1000. Predicted molecular weight: 46, 54 kDa.
ICC/IF		1/100 - 1/200.

## Target

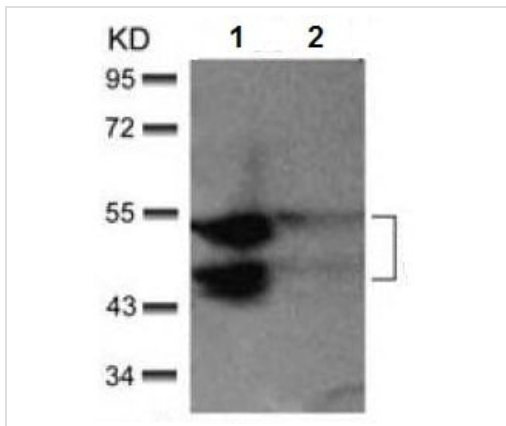
**Function** Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized 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 - Anti-JNK1+JNK2 (phospho T183 + Y185) antibody (ab131499)

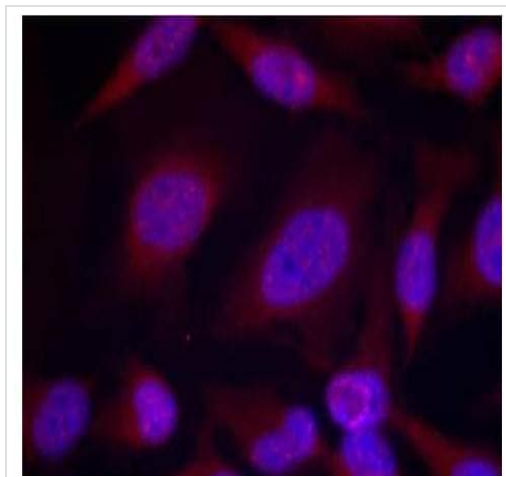
**All lanes :** Anti-JNK1 + JNK2 (phospho T183 + Y185) antibody (ab131499) at 1/500 dilution

**Lane 1 :** C6 cells treated with anisomycin

**Lane 2 :** Untreated C6 cells

**Predicted band size:** 46, 54 kDa

Secondary antibody - **anti-rabbit HRP (ab6721)**



Immunocytochemistry/ Immunofluorescence - Anti-JNK1+JNK2 (phospho T183 + Y185) antibody (ab131499)

Immunofluorescence analysis of methanol fixed HeLa cells labelled with ab131499 at 1/100 dilution.

**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