

## Product datasheet

# Recombinant Human JNK2 protein ab130019

1 Image

### Description

<b>Product name</b>	Recombinant Human JNK2 protein
<b>Purity</b>	> 95 % SDS-PAGE. ab130019 was purified using conventional chromatography techniques.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P45984-2</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p><b>MGSSHHHHHH SSSLVPRGSH MGSHMDSKSC</b>            DSQFYSVQVA DSTFTVLKRY QQLKPIGSGA            QGIVCAAFDT VLGINAVK KLSRPFQNT            AKRAYRELVL LKCVNHKNII SLLNVFTPQK TLEEFQDVYL            VMELMDANLC QVIHMELDHE RMSYLLYQML            CGIKHLHSAG IHRDLKPSN IVKSDCTLK ILDFGLARTA            CTNFMMPYV VTRYRAPEV ILGMGYKENV            DWSVGCIMG ELVKGCVIFQ GTDHIDQWNK            VIEQLGTPSA EFMKKLQPTV RNYVENRPKY PGIKFEELFP            DWIFPSESER DKIKTSQARD LLSKMLVIDP DKRISVDEAL            RHPYITVWYD PAEAEAPPQ NYDAQLEERE HAIEEWKELI            YKEVMDWEER SKNGVVKDQP SAQMQQ</p>
<b>Predicted molecular weight</b>	47 kDa including tags
<b>Amino acids</b>	1 to 382
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab130019** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Mass Spectrometry
<b>Mass spectrometry</b>	MALDI-TOF

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

## General Info

**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 c-Jun 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.

JNK2 isoforms display different binding patterns: alpha-1 and alpha-2 preferentially bind to c-Jun, whereas beta-1 and beta-2 bind to ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms. JUNB is not a substrate for JNK2 alpha-2, and JUND binds only weakly to it.

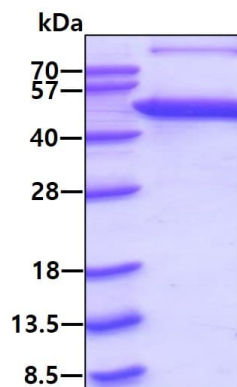
**Sequence similarities** Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.

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. Autophosphorylated in vitro.

## Images



SDS-PAGE analysis of ab130019 at 3µg under reducing condition.

SDS-PAGE - Recombinant Human JNK2 protein  
(ab130019)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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