

# AbboMax, Inc

Innovation at Work

## Rabbit anti c-Jun Polyclonal Antibody

**Alternate Names:** Transcription factor c-Jun; v-Jun sarcoma virus 17-oncogene, JUN/AP1; AH119

### Order Information

Description: Rabbit anti c-Jun  
Catalogue#: 500-4684  
Lot#: See the label  
Size: 100 ug/200 ul  
Host: Rabbit  
Clone: N/A  
Application: ELISA, WB, IHC  
Reactivity: Hu, Rt, Ms, Bv, Dg

### ANTIGEN PREPARATION

A synthetic peptide corresponding to the N-terminus of human c-Jun protein. This sequence is identical within human, rat, mouse, bovine and dog.

### BACKGROUND

c-Jun, also known as AP1, v-Jun or AH119, is a component of the transcription factor AP-1, which binds and activates transcription at TRE/AP-1 elements. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 as well as Thr 91 and Thr93. Extracellular signals including growth factors, transforming oncoproteins and UV irradiation stimulate phosphorylation of c-Jun at Ser63/73 and activate c-Jun-dependent transcription. The MAP kinase homologue SAPK/JNK binds to the amino-terminal region of c-Jun and phosphorylates c-Jun at Ser63/73 and Thr91/93. The phosphorylation of Thr239 is catalysed by The inhibition of GSK3 is not required for the dephosphorylation of Thr239 in response to LPS, and nor is the phosphorylation of Thr91 and Thr93 required for the TPA- or EGF-induced dephosphorylation of Thr239 in fibroblasts. The agonist-induced dephosphorylation of Thr239 may involve a conformational change that exposes Thr239 to dephosphorylation and/or the activation of a Thr239 phosphatase.

### PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

### SPECIFICITY

This antibody recognizes ~48 kDa of human c-Jun protein. This antibody also reacts with mouse and rat. The other species are not tested.

### FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

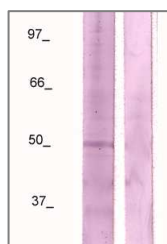
### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested µg/ml
Flow cytometry	Not tested

<b>MOLECULAR WEIGHT:</b>	48 kDa
<b>POSITIVE CONTROL:</b>	3T3 cells
<b>CELLULAR LOCATION:</b>	N/A

Optimal dilutions should be determined by researchers for the specific applications.

### DATA ATTACHMENTS



**WB:** The cell lysate derived from 3T3 cells was immunoprobed by Rabbit anti-c-Jun (Cat#500-4684) at 1:500. An immunoreactive band is observed around ~48kDa (lane 1). This band is blocked by pre-incubation with immunizing peptide (Lane 2)

### REFERENCES:

Simon Morton, et al. A reinvestigation of the multisite phosphorylation of the transcription factor c-Jun. EMBO J. 2003 August 1; 22(15): 3876-3886.

**FOR RESEARCH USE ONLY.**

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