



Rabbit anti c-Jun (pT239) Polyclonal Antibody

Alternative Name(s): Transcription factor c-Jun; v-Jun sarcoma virus 17-oncogene; JUN; AP1; Jun-proto-oncogene

Order Information

- **Description:** c-Jun (pT239)
- **Catalogue:** 500-11604
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the epitope –GETPP-at a phosphorylation site Thr 239 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 site-modified Epitope Affinity Purification.

FORMULATION

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

SPECIFICITY

This antibody recognizes ~48 kDa of human c-Jun protein at a phosphorylation site of Theronine 239. It does not react to non-phosphorylated peptides. This antibody also reacts with mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC 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
- Flow cytometry: Not tested
- Molecular Weight: 48.0
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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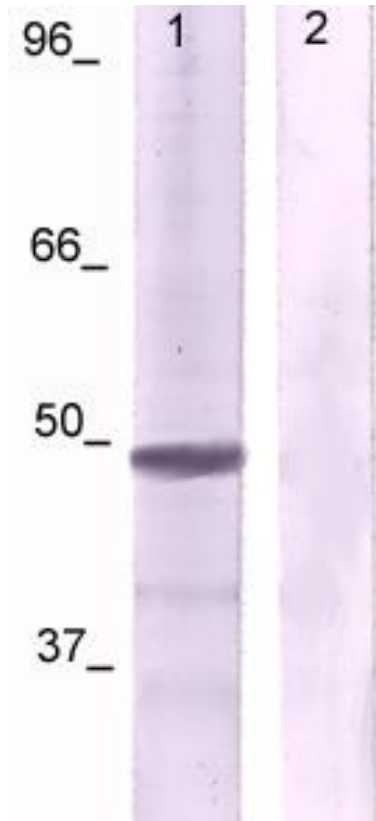
- Cellular Location: Cell Membrane

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

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DATA ATTACHMENTS



Western Blot: The cell lysate derived from UV treated 3T3 cells was immunoprobed by Rabbit anti-c-Jun (pT239) (Cat#500-11604) 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

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