

## Product datasheet

# Anti-c-Jun (phospho T91) antibody [EPR2236] ab79756

Recombinant RabMAb

1 Image

### Overview

<b>Product name</b>	Anti-c-Jun (phospho T91) antibody [EPR2236]
<b>Description</b>	Rabbit monoclonal [EPR2236] to c-Jun (phospho T91)
<b>Specificity</b>	only recognizes c-Jun phosphorylated at Threonine 91.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) corresponding to Human c-Jun aa 50-150 (phospho T91). Database link: <a href="#">P05412</a>
<b>Positive control</b>	3T3 cell lysate treated with Anisomycin
<b>General notes</b>	This product is a recombinant rabbit monoclonal antibody. A trial size is available to purchase for this antibody. Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2236
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab79756** 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
WB		1/1000 - 1/2000. Predicted molecular weight: 36 kDa.
IP		1/20.

## Target

### Function

Transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. Involved in activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells (PubMed:24623306). Binds to the USP28 promoter in colorectal cancer (CRC) cells (PubMed:24623306).

### Sequence similarities

Belongs to the bZIP family. Jun subfamily.  
Contains 1 bZIP (basic-leucine zipper) domain.

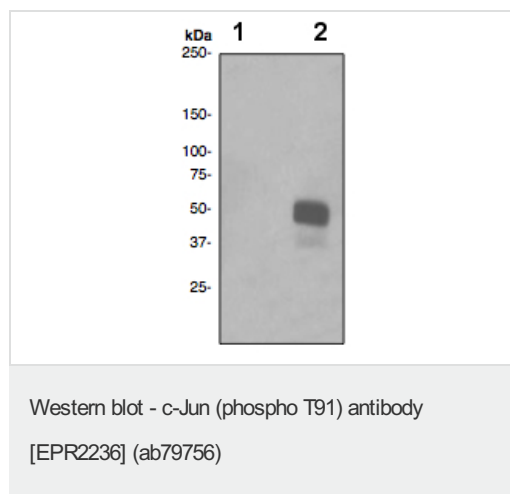
### Post-translational modifications

Ubiquitinated by the SCF(FBXW7), leading to its degradation. Ubiquitination takes place following phosphorylation, that promotes interaction with FBXW7.  
Phosphorylated by CaMK4 and PRKDC; phosphorylation enhances the transcriptional activity. Phosphorylated by HIPK3. Phosphorylated by DYRK2 at Ser-243; this primes the protein for subsequent phosphorylation by GSK3B at Thr-239. Phosphorylated at Thr-239, Ser-243 and Ser-249 by GSK3B; phosphorylation reduces its ability to bind DNA. Phosphorylated by PAK2 at Thr-2, Thr-8, Thr-89, Thr-93 and Thr-286 thereby promoting JUN-mediated cell proliferation and transformation. Phosphorylated by PLK3 following hypoxia or UV irradiation, leading to increase DNA-binding activity.  
Acetylated at Lys-271 by EP300.

### Cellular localization

Nucleus.

## Images



**All lanes :** Anti-c-Jun (phospho T91) antibody  
[EPR2236] (ab79756) at 1/2000 dilution

**Lane 1 :** lysate from 3T3 cells

**Lane 2 :** lysate from 3T3 cells treated with  
Anisomycin

Lysates/proteins at 10 µg per lane.

**Predicted band size :** 36 kDa

**Observed band size :** 50 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- 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

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