

For Research Use Only

# Phospho-JUN (Ser73) Polyclonal antibody

Catalog Number: 28891-1-AP

23 Publications



## Basic Information

<b>Catalog Number:</b> 28891-1-AP	<b>GenBank Accession Number:</b> BC068522	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul, Concentration: 330 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3725	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05412	
<b>Isotype:</b> IgG	<b>Full Name:</b> jun oncogene	
	<b>Calculated MW:</b> 331 aa, 36 kDa	
	<b>Observed MW:</b> 38-45 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : UV treated NIH/3T3 cells, IF/ICC : NIH/3T3 cells,
<b>Cited Applications:</b> WB, IF, CoIP	
<b>Species Specificity:</b> Human, mouse, rat	
<b>Cited Species:</b> human, mouse, pig	

## Background Information

JUN is also named as c-Jun and AP1, belongs to the bZIP family and Jun subfamily. JUN, the most extensively studied protein of the activator protein-1 (AP-1) complex, is involved in numerous cell activities, such as proliferation, apoptosis, survival, tumorigenesis and tissue morphogenesis (PMID: 22180088). JUN is a transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. It promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. JUN is a basic leucine zipper (bZIP) transcription factor that acts as homo- or heterodimer, binding to DNA and regulating gene transcription (PMID: 9732876). In addition, extracellular signals can induce post-translational modifications of JUN, resulting in altered transcriptional activity and target gene expression (PMID:8464713). More over, it has uncovered multiple layers of a complex regulatory scheme in which JUN is able to crosstalk, amplify and integrate different signals for tissue development and disease. Jun is predominantly nuclear, ubiquitinated Jun colocalizes with lysosomal proteins (PMID: 15469925). This antibody is raised against synthetic phosphopeptide corresponding to residues surrounding Ser73 of human JUN, which can detect the bands around 42-45 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhaoyi Liang	36210461	Cell Mol Biol Lett	WB
Lieqiang Xu	36438835	Front Pharmacol	WB
Xiang Tong	34803671	Front Pharmacol	WB

## Storage

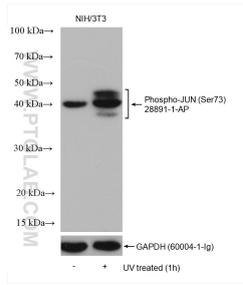
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

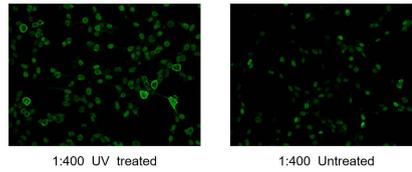
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## Selected Validation Data



Non-treated NIH/3T3 and UV treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28891-1-AP (Phospho-JUN (Ser73) antibody) at dilution of 1:1000 incubated at 4°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed UV treated and non-treated NIH/3T3 cells using Phospho-JUN (Ser73) antibody (28891-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).