

For Research Use Only

# JUN Monoclonal ANTIBODY



Catalog Number: 66313-1-Ig **4 Publications**

## Basic Information

<b>Catalog Number:</b> 66313-1-Ig	<b>GenBank Accession Number:</b> BC068522	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150UL, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3725	<b>CloneNo.:</b> 1G6B11
<b>Source:</b> Mouse	<b>Full Name:</b> jun oncogene	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 331 aa, 36 kDa	
<b>Immunogen Catalog Number:</b> AG17639	<b>Observed MW:</b> 39 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB: RAW 264.7 cells, NIH/3T3 cells, A431 cells, Jurkat cells, ROS1728 cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

## 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 a region of human JUN. Both phosphorylated (p-c-Jun) and unphosphorylated forms of c-Jun, with sizes of 42-45 kDa and 36-39 kDa, respectively are obtain in some experiments. (PMID: 17210646)

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhanhui Du	32431596	Front Mol Neurosci	WB
Xinhua Xiao	32552902	J Hematol Oncol	WB
Sydney A Labuzan	32112987	Gene	WB

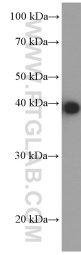
## Storage

**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

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 66313-1-Ig (JUN Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.