

For Research Use Only

# JUN Monoclonal antibody

Catalog Number: **66313-1-Ig** 28 Publications



## Basic Information

<b>Catalog Number:</b> 66313-1-Ig	<b>GenBank Accession Number:</b> BC068522	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3725	<b>CloneNo.:</b> 1G6B11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P05412	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> jun oncogene	
<b>Immunogen Catalog Number:</b> AG17639	<b>Calculated MW:</b> 331 aa, 36 kDa	
	<b>Observed MW:</b> 39 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : MDA-MB-231 cells, ROS1728 cells, Saos-2 cells, HEK-293 cells, NIH/3T3 cells, RKO 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 a raised against a region of human JUN.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhuo-Yuan Wang	36370638	Phytomedicine	WB
Xiang Tong	34803671	Front Pharmacol	WB
Zhanhui Du	32431596	Front Mol Neurosci	WB

## Storage

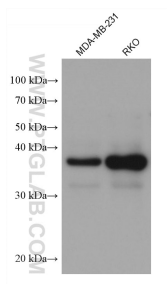
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66313-1-Ig (JUN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.