

For Research Use Only

# CoraLite® Plus 488-conjugated JUN Monoclonal antibody



Catalog Number:CL488-66313

## Basic Information

**Catalog Number:**

CL488-66313

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG17639

**GenBank Accession Number:**

BC068522

**GeneID (NCBI):**

3725

**UNIPROT ID:**

P05412

**Full Name:**

jun oncogene

**Calculated MW:**

331 aa, 36 kDa

**Observed MW:**

39 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1G6B11

**Recommended Dilutions:**

WB 1:500-1:1000

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

WB, FC (Intra)

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : RAW 264.7 cells,

## 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)

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

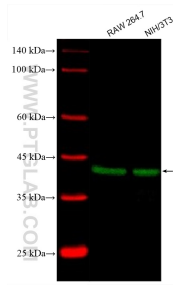
T: 4006900926

E: Proteintech-CN@ptglab.com

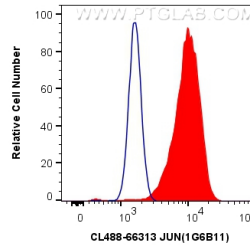
W: ptgcn.com

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-66313 (JUN antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> NIH/3T3 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human JUN (CL488-66313, Clone:1G6B11) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).