For Research Use Only

Phospho-JUN (Ser73) Recombinant antibody, PBS Only

Catalog Number:80086-1-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
80086-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC068522

GeneID (NCBI):
3725

UNIPROT ID:
P05412

Full Name:
jun oncogene

Calculated MW:
331 aa, 36 kDa

Observed MW:
42-45 kDa

Purification Method:
Protein A purification

CloneNo.:
4A18

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

Background Information

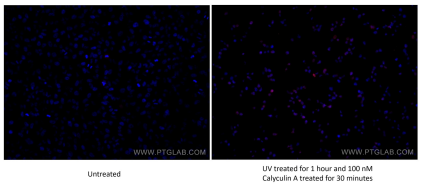
JUN, the most extensively studied protein of the activator protein-1 (AP-1) complex, is involved in numerous cell activities, such as proliferation, apoptosis, survival, tumorigenesis and tissue morphogenesis (PMID: 22180088). JUN is a transcription factor that recognizes and binds to the enhancer heptamer 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 additon, 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.

Storage

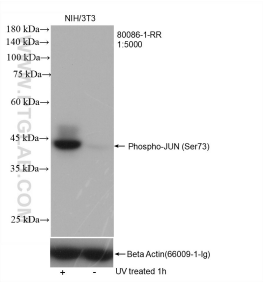
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

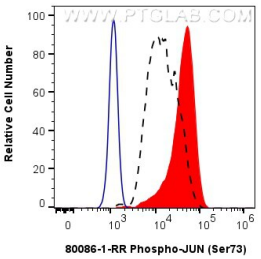
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed untreated A549 cells, UV (1 hour) and 100 nM Calyculin A (30 minutes) treated HeLa cells using Phospho-JUN (Ser73) antibody (80086-1-RR, Clone: 4A18) at dilution of 1:500 and Multi-rAb CoraLite ® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (Cat.NO. RGAR004). This data was developed using the same antibody clone with 80086-1-PBS in a different storage buffer formulation.



Non-treated and UV treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80086-1-RR (Phospho-JUN (Ser73) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin antibody (66009-1-Ig) as loading control. This data was developed using the same antibody clone with 80086-1-PBS in a different storage buffer formulation.



1x10^6 NIH/3T3 cells untreated (dashed lines) or treated with UV were intracellularly stained with 0.13 ug Phospho-JUN (Ser73) Recombinant antibody (80086-1-RR, Clone:4A18) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody