

For Research Use Only

CoraLite® Plus 750-conjugated Phospho-JUN (Ser73) Recombinant antibody

Catalog Number: CL750-80086



Basic Information

Catalog Number: CL750-80086	GenBank Accession Number: BC068522	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3725	CloneNo.: 4A18
Source: Rabbit	UNIPROT ID: P05412	Recommended Dilutions: WB 1:500-1:1000
Isotype: IgG	Full Name: jun oncogene	Excitation/Emission maxima wavelengths: 755 nm / 780 nm
	Calculated MW: 331 aa, 36 kDa	
	Observed MW: 42-45 kDa	

Applications

Tested Applications: WB, FC (Intra)	Positive Controls: WB : SH-SY5Y cells,
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 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.

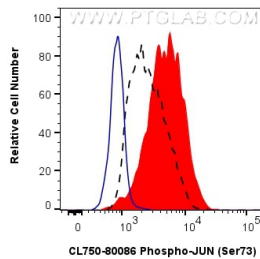
Storage

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

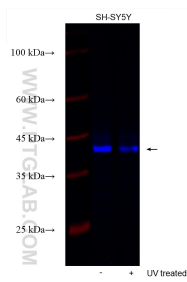
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



1X10⁶ NIH/3T3 cells untreated (dashed lines) or treated with UV which intracellularly stained with 0.25 ug CoraLite® Plus 750-conjugated Phospho-JUN (Ser73) Recombinant antibody (CL750-80086, Clone:4A18)(red), or 0.25 ug CoraLite® Plus 750 Rabbit IgG Isotype Control RecAb (CL750-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Various lysates were subjected to SDS PAGE followed by western blot with CL750-80086 (Phospho-JUN (Ser73) antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.