For Research Use Only

JUN Polyclonal antibody

Catalog Number:24909-1-AP Featured Product 31 Publications

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Basic Information

Catalog Number:
24909-1-AP

Size:
150ul , Concentration: 1200 μg/ml by Nanodrop and 733 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17639

GenBank Accession Number:
BC068522

GeneID (NCBI):
3725

Full Name:
jun oncogene

Calculated MW:
331 aa, 36 kDa

Observed MW:
39 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:20-1:200
IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, WB,ELISA

Cited Applications:
ChIP, CoIP, IF, IHC, IP, WB

Species Specificity:
human, hamster, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, NIH3T3 cells, HepG2 cells

IHC : human cervical cancer tissue, human breast cancer tissue

IF : NIH/3T3 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 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 a rabbit polyclonal antibody 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
ZiBo Tang	33230457	Mol Ther Nucleic Acids	WB
Kai Wang	31601909	Sci Rep	WB
Fangqiao Lv	34660604	Front Cell Dev Biol	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
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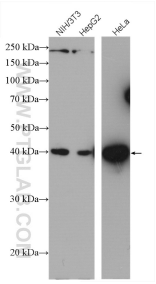
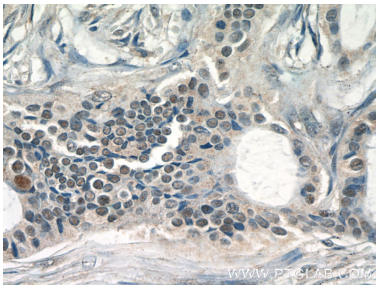
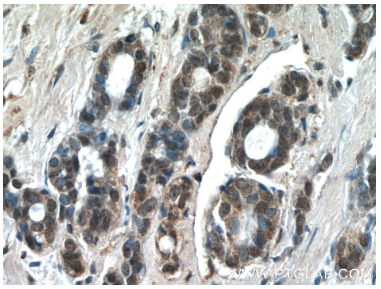
Selected Validation Data



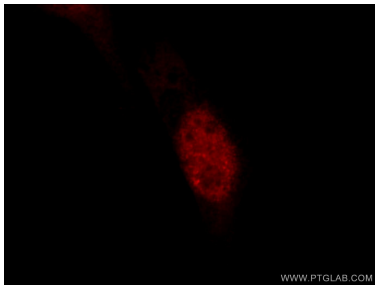
Various lysates were subjected to SDS PAGE followed by western blot with 24909-1-AP (JUN antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 24909-1-AP (JUN Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 24909-1-AP (JUN Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of NIH/3T3 cells using 24909-1-AP (JUN antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.