

JUN Polyclonal antibody

Catalog Number: 22114-1-AP

8 Publications

Basic Information

Catalog Number:

22114-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17419

GenBank Accession Number:

BC002646

GeneID (NCBI):

3725

UNIPROT ID:

P05412

Full Name:

jun oncogene

Calculated MW:

331 aa, 36 kDa

Observed MW:

40-46 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, ChIP

Species Specificity:

human, mouse, rat, monkey

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 : NIH/3T3 cells, rat brain tissue, HEK-293 cells

IHC : human skin cancer tissue,

IF/ICC : 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 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 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
Ruichen Wang	33365066	Exp Ther Med	WB
Deshi Dong	24886943	Molecules	WB
Ceshu Gao	34022890	J Neuroinflammation	WB

Storage

Storage:

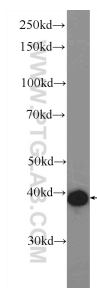
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

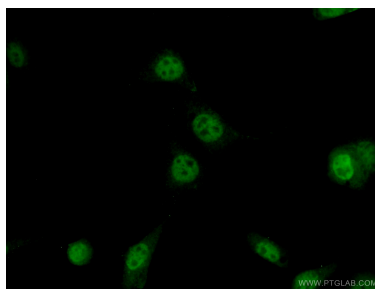
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

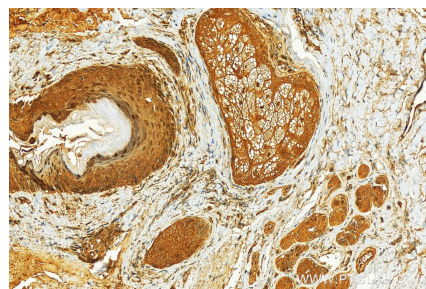
Selected Validation Data



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 22114-1-AP (JUN Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed NIH/3T3 cells using 22114-1-AP (JUN antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 22114-1-AP (JUN antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).