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Rabbit Anti-C-jun antibody

SL0670R

Product Name:	C-jun
Chinese Name:	原癌基因蛋白/活化蛋白1抗体
Alias:	Transcription factor AP-1; Jun oncogene; JUN; AP 1; AP1; AP-1; Enhancer Binding Protein AP1; Jun Activation Domain Binding Protein; JUN protein; JUNC; p39; Proto oncogene cJun; Transcription Factor AP1; V jun avian sarcoma virus 17 oncogene homolog; vJun Avian Sarcoma Virus 17 Oncogene Homolog; JUN_HUMAN; Activator 1; Proto-oncogene c-Jun; V-jun avian sarcoma virus 17 oncogene homolog.
文献引用 PubMed :	**Specific References(5)**|SL0670R has been referenced in 5 publications. **[IF=2.08]**Zhang, Jihong, et al. "Interleukin 18 augments growth ability via NF-κB and p38/ATF2 pathways by targeting cylin B1, cyclin B2, cylin A2, and Bcl-2 in BRL-3A rat liver cells." Gene (2015).**WB;Rat**. PubMed:25752290 **[IF=5.58]**Zhou, Zhiwei, et al. "microRNA let-7c is essential for the anisomycin-elicited apoptosis in Jurkat T cells by linking JNK1/2 to AP-1/STAT1/STAT3 signaling." Scientific Reports 6 (2016): 24434.**WB;Human**. PubMed:27087117 **[IF=2.30]**Zhang, Ying, et al. "Overexpression of WNT5B promotes COLO 205 cell migration and invasion through the JNK signaling pathway." Oncology Reports.**WB;Human**. PubMed:27121420 **[IF=1.27]**Liu, Lina, et al. "Therapeutic effects of 1, 25-dihydroxyvitamin D3 on diabetes-induced liver complications in a rat model." Experimental and Therapeutic Medicine 11.6 (2016): 2284-2292.**IHC-P;Rat**.

	PubMed: 27284312 [IF=1.56]Du, Jinghua, et al. "TLR4?dependent signaling pathway modulation: A novel mechanism by which pioglitazone protects against nutritional fibrotic steatohepatitis in mice." Molecular medicine reports 13.3 (2016): 2159-2166.**WB;Mouse**. PubMed:26781175
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	43kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Transcription factor AP-1:31-331/331
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The human protooncogene JUN is the putative transforming gene of avian sarcoma virus 17, and it encodes a protein which is highly homologous to the viral protein. cJun (previously known as the Fos binding protein p39) and c Fos form a complex in the nucleus. AP 1 (activating protein 1) is a collective term referring to these dimeric transcription factors composed of Jun, Fos or ATF subunits that bind to a common DNA site, the AP1 binding site. AP 1 proteins, mostly the Jun group, regulate the expression and function of cell cycle regulators such as Cyclin D1, p53, p21 (cip1/waf1), p19 (ARF) and p16. Fos and Jun proto oncogene expression is induced transiently by a variety of extracellular stimuli associated with mitogenesis, differentiation processes or depolarization of neurons. JUN has been mapped to 1p32 to p31, a chromosomal region involved in both translocations and deletions in human malignancies. **Function:** Transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation.

Subunit:
Heterodimer with either FOS or BATF3 or ATF7. The ATF7/JUN heterodimer is essential for ATF7 transactivation activity. Interacts with DSIPI; the interaction inhibits the binding of active AP1 to its target DNA. Interacts with HIVEP3 and MYBBP1A. Interacts with SP1, SPIB and TCF20. Interacts with COPS5; the interaction leads indirectly to its phosphorylation. Component of the SMAD3/SMAD4/JUN/FOS/complex which forms at the AP1 promoter site. The SMAD3/SMAD4 heterodimer acts syngernistically with the JUN/FOS heterodimer to activate transcription in response to TGF-beta. Interacts (via its basic DNA binding and leucine zipper domains) with SMAD3 (via an N-terminal domain); the interaction is required for TGF-beta-mediated transactivation of the SMAD3/SMAD4/JUN/FOS/complex. Interacts with RNF187. Binds to HIPK3.

Subcellular Location:
Nucleus.

Post-translational modifications:
Phosphorylated by CaMK4 and PRKDC; phosphorylation enhances the transcriptional activity. Phosphorylated by HIPK3. [PTM] Phosphorylated at Thr-239, Ser-243 and Ser-249 by GSK3B; phosphorylation reduces its ability to bind DNA.
Phosphorylated by PAK2 at Thr-2, Thr-8, Thr-89, Thr-93 and Thr-286 thereby promoting JUN-mediated cell proliferation andtransformation.

Similarity:
Belongs to the bZIP family. Jun subfamily.
Contains 1 bZIP domain.

SWISS:
P05412

Gene ID:
3725

Database links:

Entrez Gene: 3725 Human

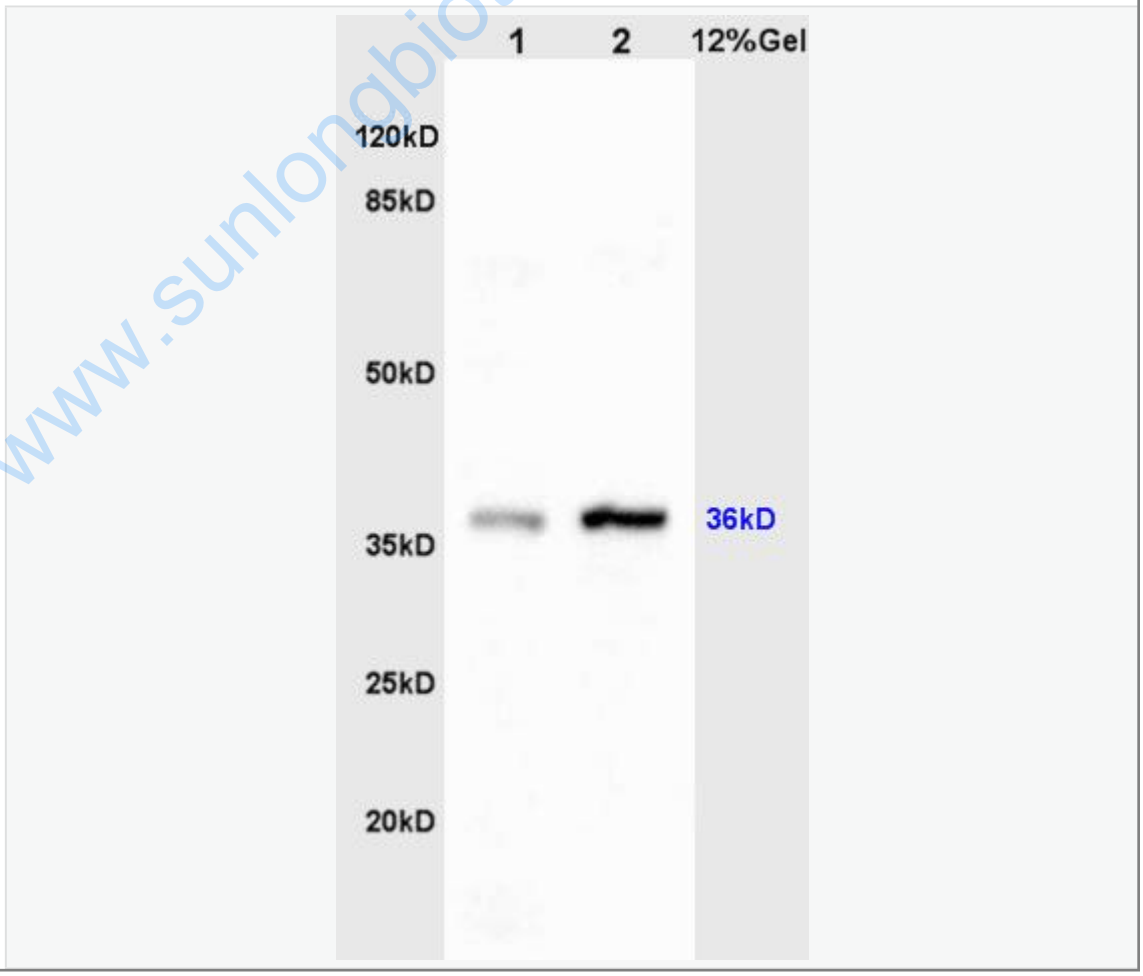
Entrez Gene: 16476 Mouse

Entrez Gene: 24516 Rat

Omim: 165160 Human

SwissProt: P05412 Human

SwissProt: P05627 Mouse

	SwissProt: P17325 Rat Unigene: 525704 Human Unigene: 696684 Human Unigene: 275071 Mouse Unigene: 93714 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. transcriptional regulatory factor（Transcriptin Regulators） C-jun(Oncoprotein C-jun：active protein 1)基因与鸟类肉瘤病毒17的转化基因具有同源性，是早期应答基因家族成员之一。主要用于各种恶性Tumour的研究。C-jun又称应激活化蛋白激酶.
Picture:	

Sample:

Liver(Rat)lysate at 30ug;

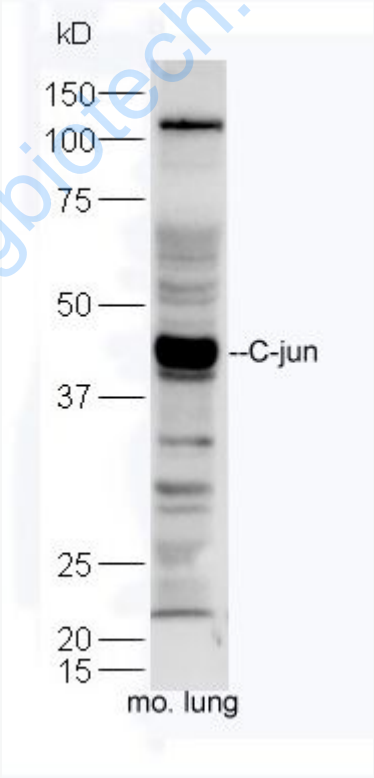
Brain(Rat) lysates at 30ug;

Primary: Anti-C-jun/AP-1 (SL0670R) at 1:200;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL0670R) at 1: 3000;

Predicted band size : 36kD

Observed band size : 36kD

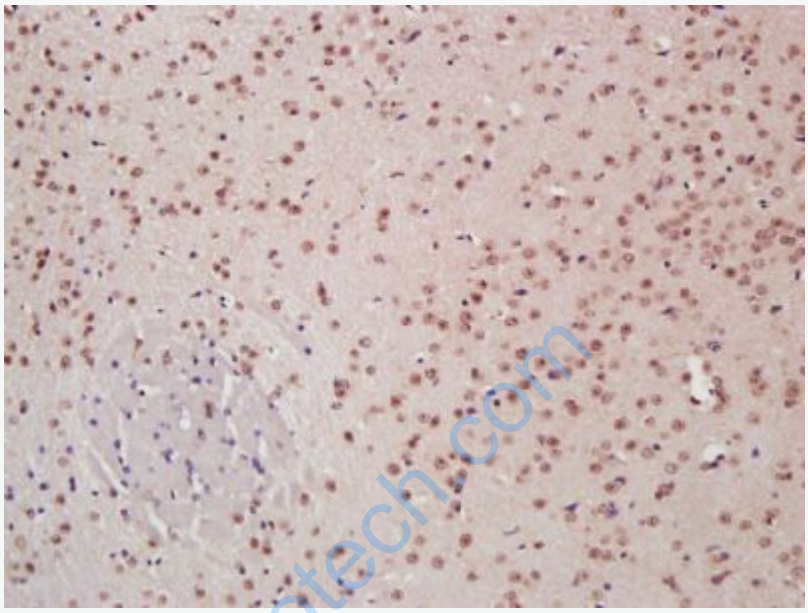


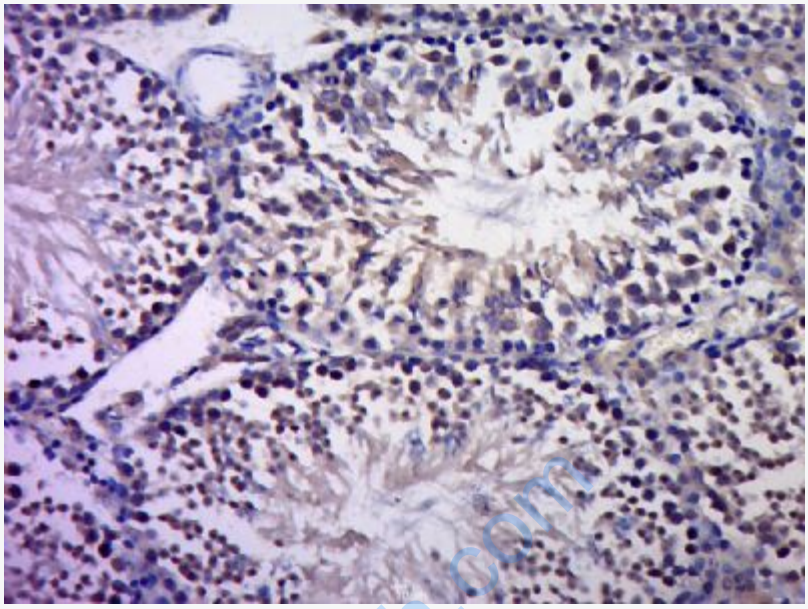
Sample: Lung(Mouse) Lysate at 30ug;

Primary: Anti-C-jun (SL0670R) at 1:300 dilution;

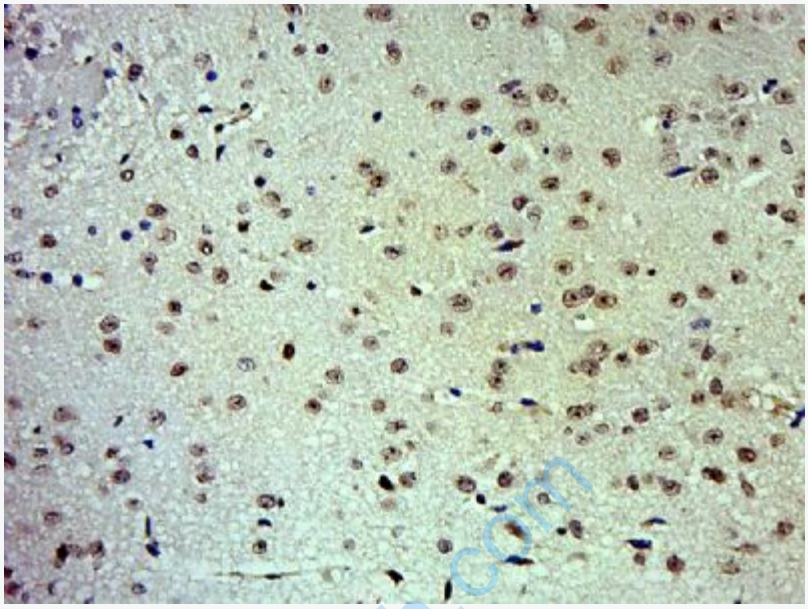
Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0670R) at 1:5000;

Predicted band size:36 kD

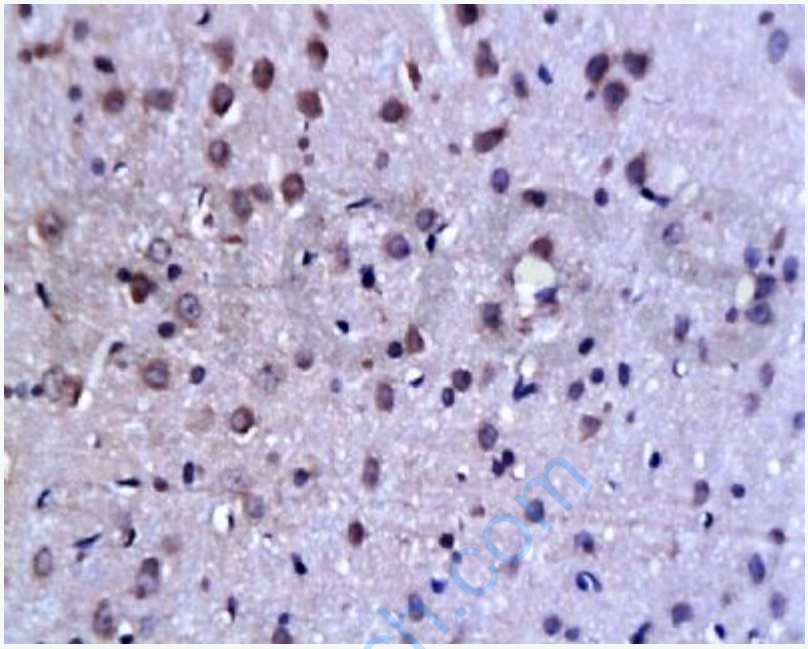
	Observed band size:40 kD  Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibody, Unconjugated (SL0670R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibody, Unconjugated (SL0670R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibody, Unconjugated (SL0670R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-C-Jun Polyclonal Antibody, Unconjugated(SL0670R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

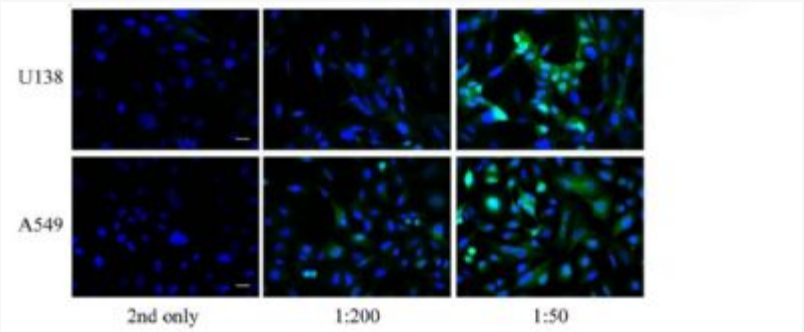
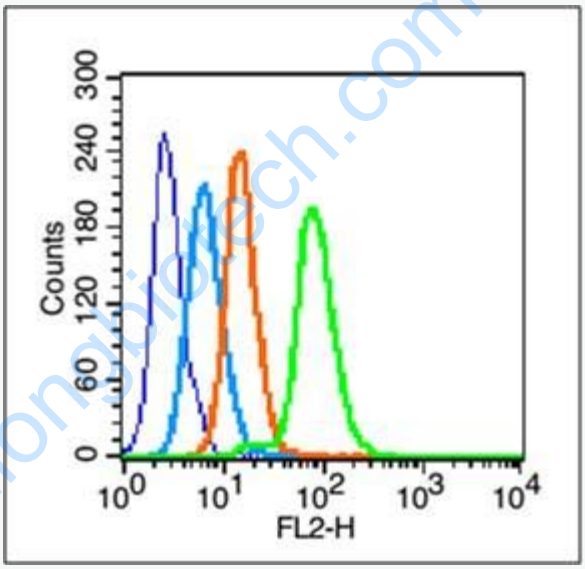


Figure 1. IF validation U138 and A549 cells were stained with rabbit polyclonal antibody against C- JUN with dilution at 1:200 and 1:50. 2nd antibody without primary antibody was used as control included here. Fluorescent signals were detected with 1:50 primary antibody dilution in both U138 and A549 cells it shows more prominent nucleus staining than cytoplasmic staining. Scale bar= 20 µm.



Blank control (blue line): HepG2 (blue).

Primary Antibody (green line): Rabbit Anti-C-jun antibody (SL0670R)

Dilution: 1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1µg /test.

Protocol

The cells were fixed with 70% methanol (Overnight at 4℃) and then permeabilized

	with 90% ice-cold methanol for 20 min at -20℃. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.