SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

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 AP Domain Binding Protein; JUN protein; JUNC; p39; Proto oncogene cJun; Transcription Factor A sarcoma virus 17 oncogene homolog; vJun Avian Sarcoma Virus 17 Oncogene Homolog; JUN_H Proto-oncogene c-Jun; V-jun avian sarcoma virus 17 oncogene homolog.
Research Area	Tumour Cell biology Signal transduction transcriptional regulatory factor Kinases and Phosphat
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Chicken, Dog, Pig, Cow, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1μg/Test （Par antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	36kDa
Detection molecular weight	43/36 kDa
Cellular localization	The nucleus
Form	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
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or dia

PubMed PubMed

Product Detail

The human protooncogene JUN is the putative transforming gene of avian sarcoma virus 17, and which is highly homologous to the viral protein. cJun (previously known as the Fos binding prot form a complex in the nucleus. AP 1 (activating protein 1) is a collective term referring to these factors composed of Jun, Fos or ATF subunits that bind to a common DNA site, the AP1 binding mostly the Jun group, regulate the expression and function of cell cycle regulators such as Cyclin (cip1/waf1), p19 (ARF) and p16. Fos and Jun proto oncogene expression is induced transiently b extracellular stimuli associated with mitogenesis, differentiation processes or depolarization of ne mapped to 1p32 to p31, a chromosomal region involved in both translocations and deletions in h

Function:
Transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA- of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression u pathway stimulation.

Subunit:
Heterodimer with either FOS or BATF3 or ATF7. The ATF7/JUN heterodimer is essential for A activity. Interacts with DSIPI; the interaction inhibits the binding of active AP1 to its target DNA HIVEP3 and MYBBP1A. Interacts with SP1, SPIB and TCF20. Interacts with COPS5; the intera to its phosphorylation. Component of the SMAD3/SMAD4/JUN/FOS/complex which forms at th The SMAD3/SMAD4 heterodimer acts syngernistically with the JUN/FOS heterodimer to activa response to TGF-beta. Interacts (via its basic DNA binding and leucine zipper domains) with SM 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. I HIPK3. [PTM] Phosphorylated at Thr-239, Ser-243 and Ser-249 by GSK3B; phosphorylation re bind DNA.
Phosphorylated by PAK2 at Thr-2, Thr-8, Thr-89, Thr-93 and Thr-286 thereby promoting JUN-r proliferation andtransformation.

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

SWISS:
P05412

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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

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，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.

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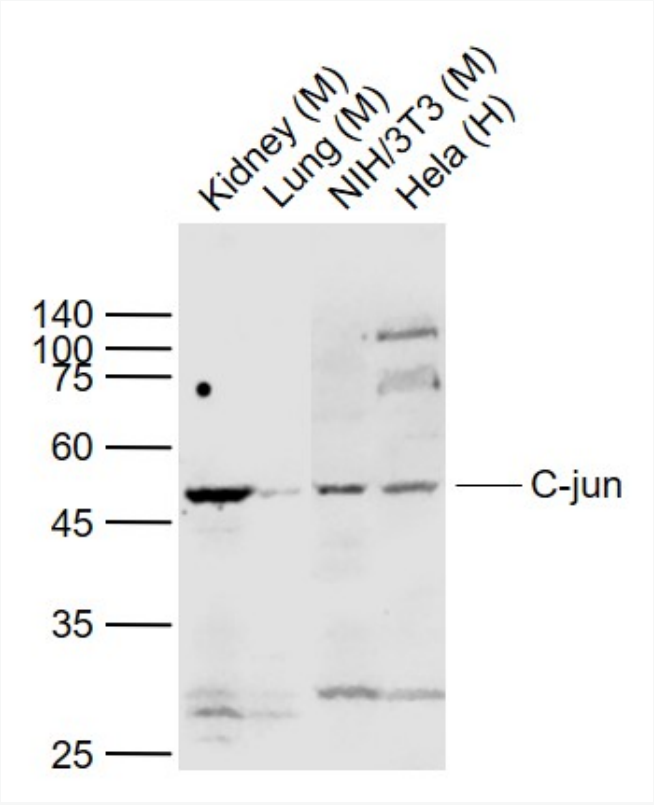
Product Picture



Sample:

Lane 1: Kidney (Mouse) Lysate at 40 ug

Lane 2: Lung (Mouse) Lysate at 40 ug

Lane 3: NIH/3T3 (Mouse) Cell Lysate at 30 ug

Lane 4: Hela (Human) Cell Lysate at 30 ug

Primary: Anti-C-jun (SL0670R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 43/36 kD

Observed band size: 45 kD

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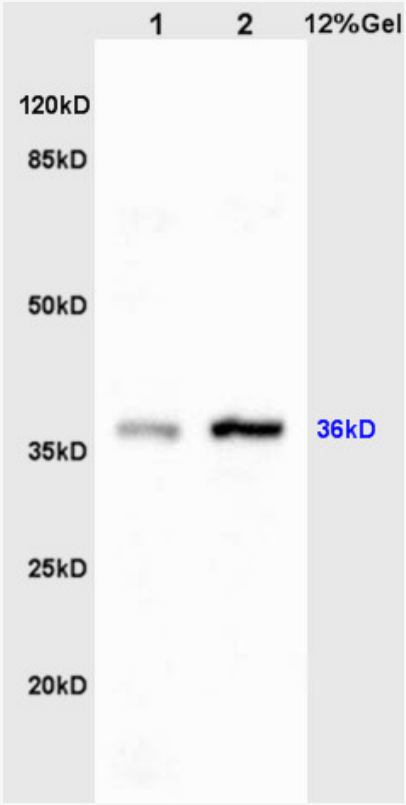

Sample:

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(SL0295G-HRP) at 1: 3000;

Predicted band size : 36kD

Observed band size : 36kD

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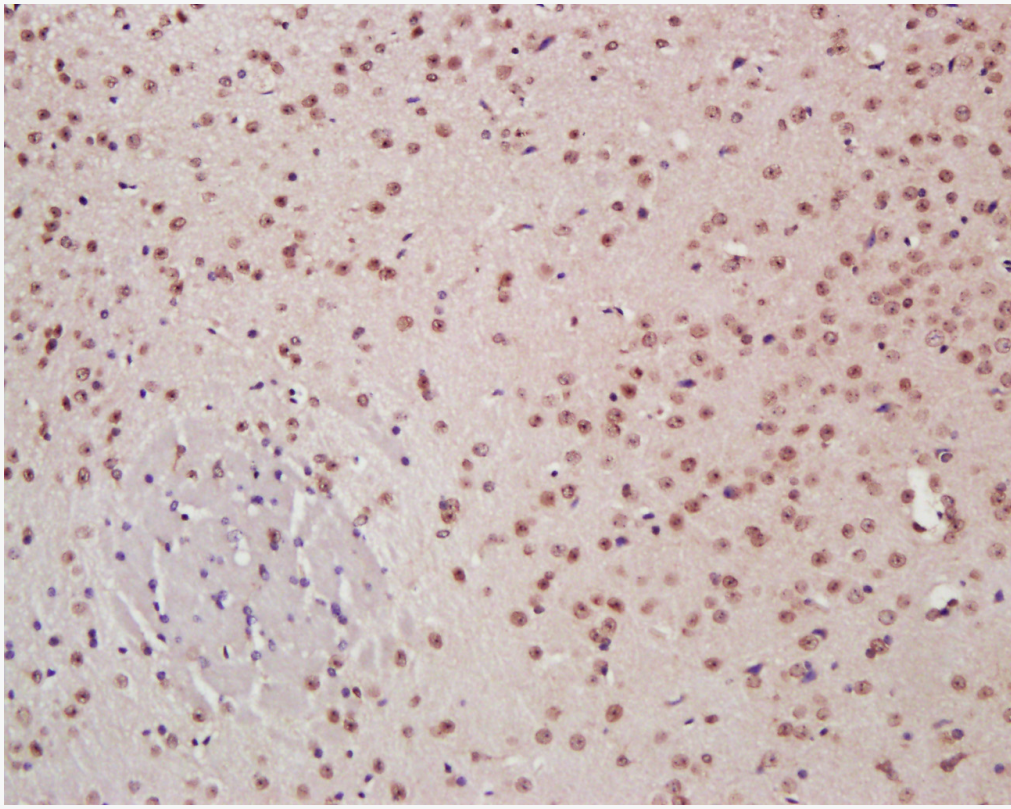

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibod
(SL0670R) at 1:400 overnight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

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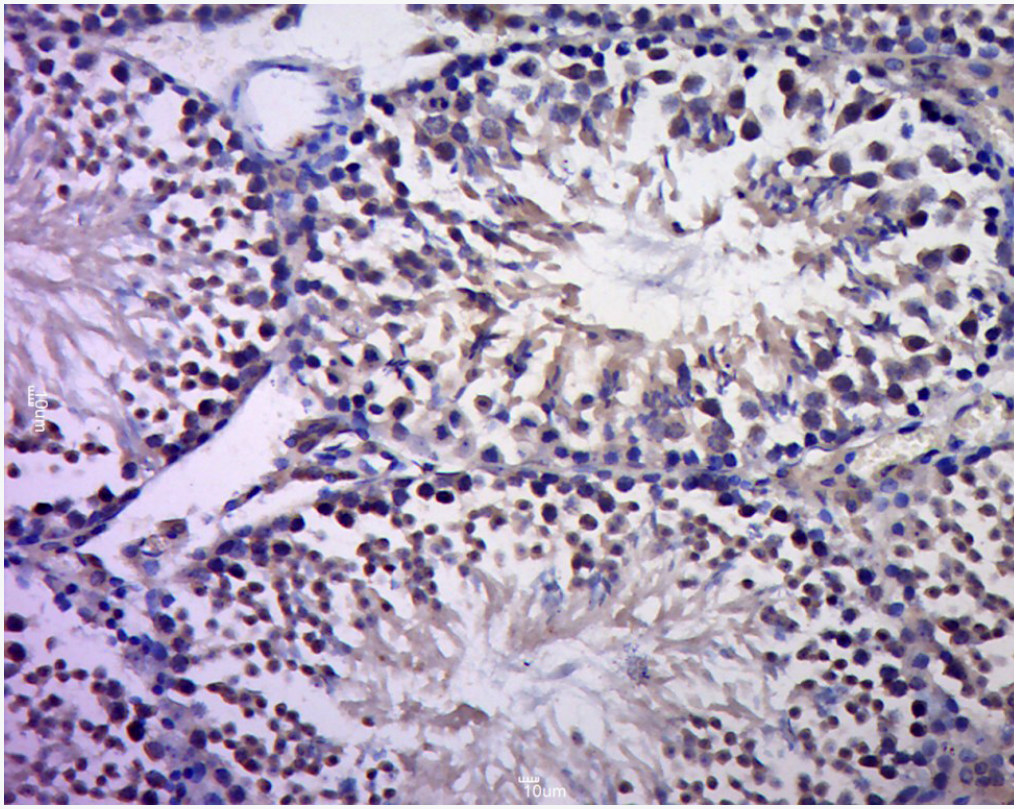

Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodiu
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibod
(SL0670R) at 1:400 overnight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

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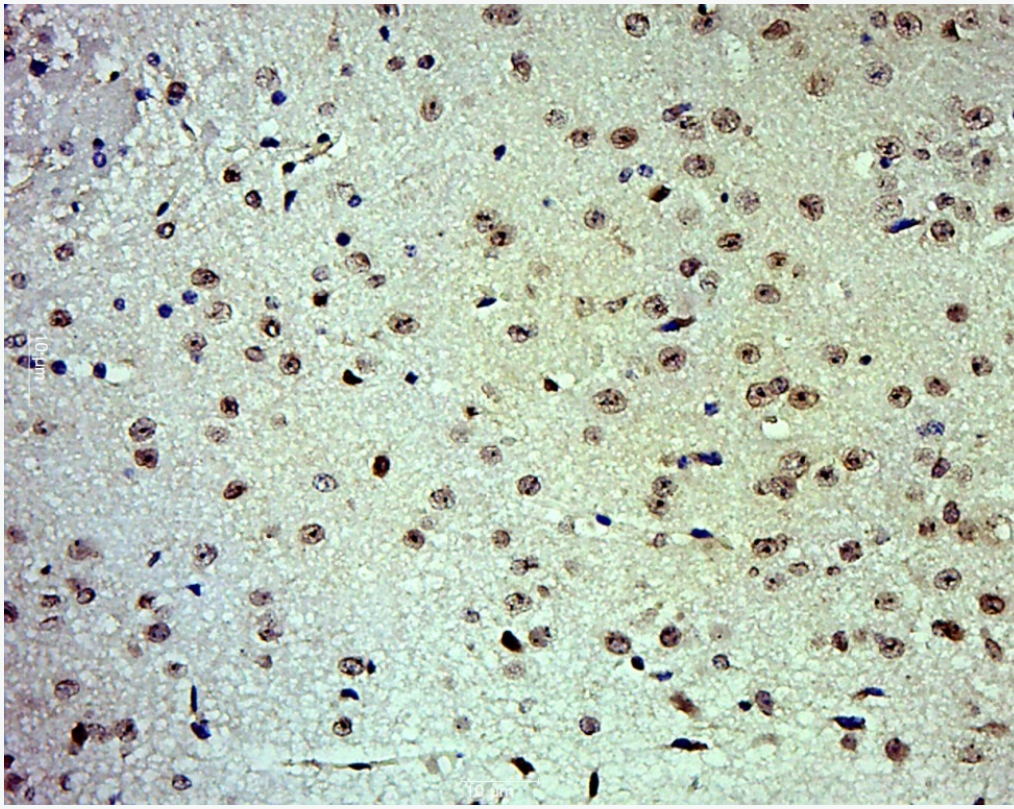

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (C-jun) Polyclonal Antibod
(SL0670R) at 1:500 overnight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

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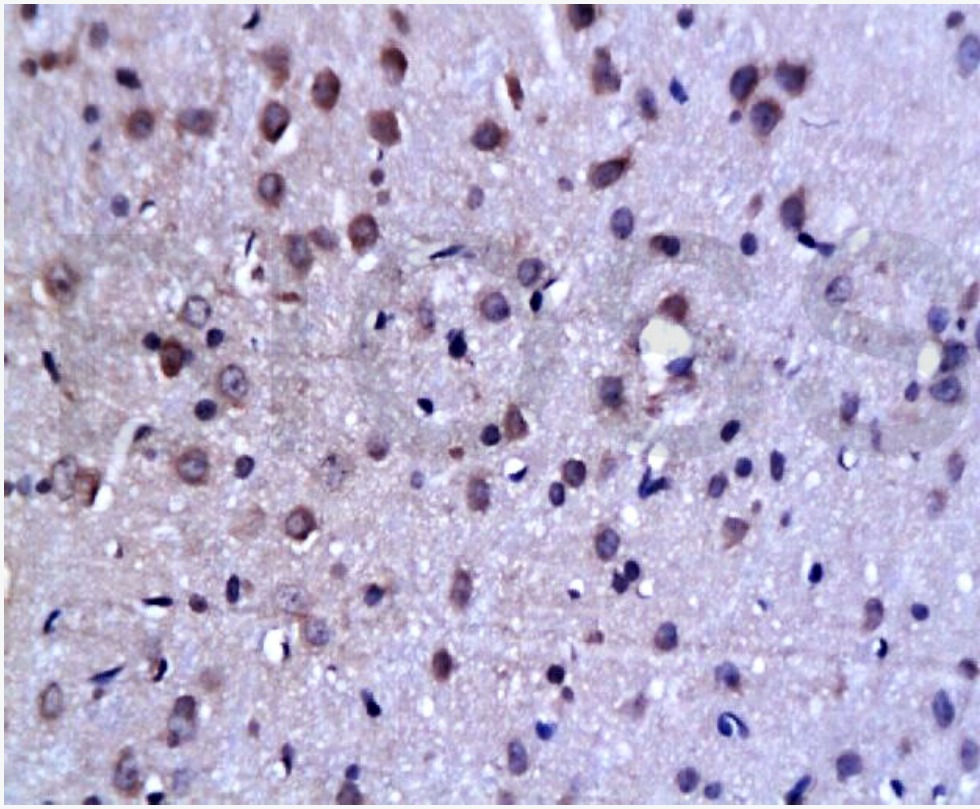

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous

Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 mi

Incubation: Anti-C-Jun Polyclonal Antibody, Unconjugated(SL0670R) 1:200, overnight at 4°

conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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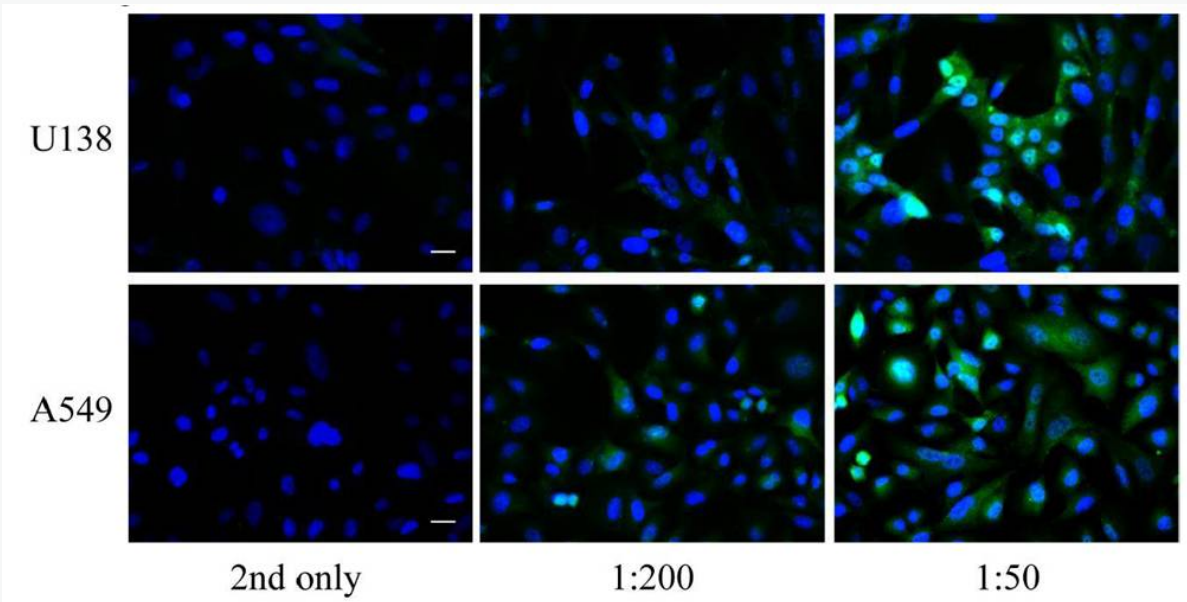

Figure 1. IF validation U138 and A549 cells were stained with rabbit polyclonal antibody a
dilution at 1:200 and 1:50. 2nd antibody without primary antibody was used as contr
Fluorescent signals were detected with 1:50 primary antibody dilution in both U138 and A
more prominent nucleus staining than cytoplasmic staining. Scale bar= 20 µm.

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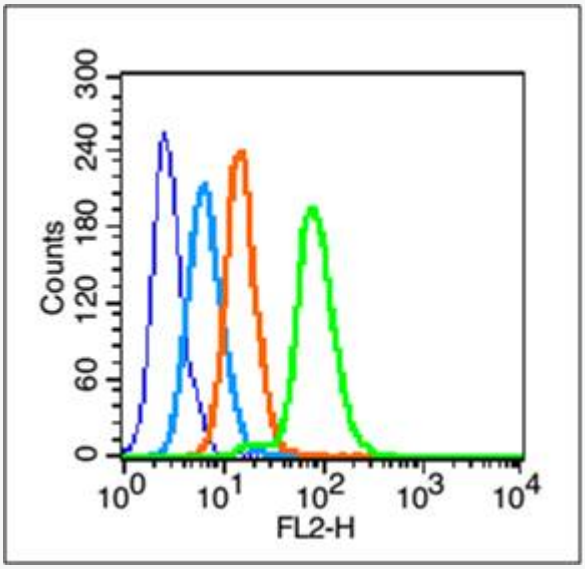

Blank control (blue line): HepG2 (blue).

Primary Antibody (green line): Rabbit Anti-C-jun antibody (SL4601R)

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%

for 20 min at -20℃. Cells stained with Primary Antibody for 30 min at room temperature. The

incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interacti

antibody for 15 min at room temperature. The secondary antibody used for 40 min at room te

Acquisition of 20,000 events was performed.

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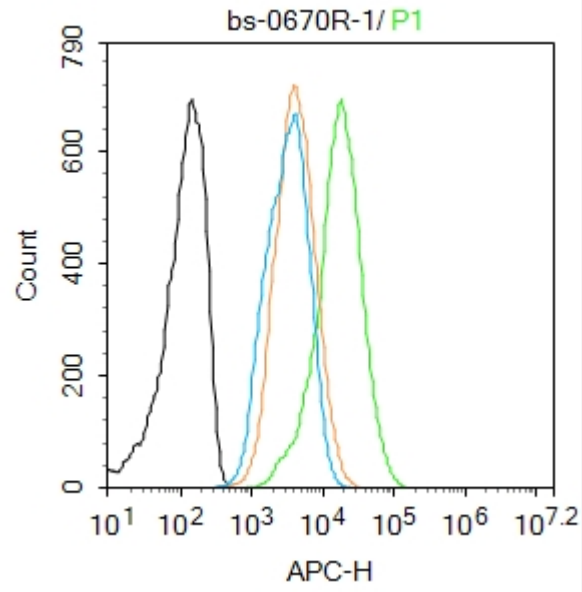

Blank control: Hela.

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

Dilution: 1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 9

methanol for 20 min at -20℃. The cells were then incubated in 5%BSA to block non-specific

interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min a

The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events w