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Rabbit Anti-c-Jun antibody

SLM-52035R

Product Name	c-Jun
Chinese Name	原癌基因蛋白/活化蛋白 1Recombinant rabbit monoclonal anti
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.
Research Area	Tumour Cell biology Signal transduction transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Monoclonal
Clone NO.	4A11
React Species	Human,Mouse
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	43kDa
Detection molecular weight	43/36 kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human c-Jun protein (1-100aa)
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 diagnostic applications.

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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.

Product Detail

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

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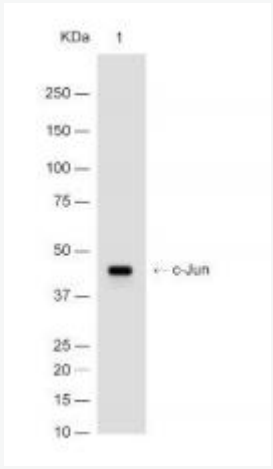
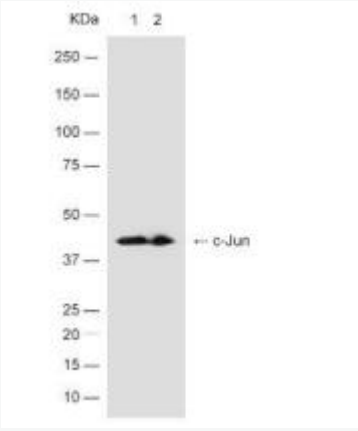
Product Picture



Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1:1000 Primary Ab incubation condition: 4℃ overnight Secondary Ab: Goat Anti-Rabbit/Mouse IgG H&L (HRP) Lysate: 1. NIH/3T3 Protein loading quantity: 20 μg Predicted MW: 36 kDa Observed MW: 43 kDa



Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1:1000 Primary Ab incubation condition: 4℃ overnight Secondary Ab: Goat Anti-Rabbit/Mouse IgG H&L (HRP) Lysate: 1. HEK-293; 2. 293T Protein

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