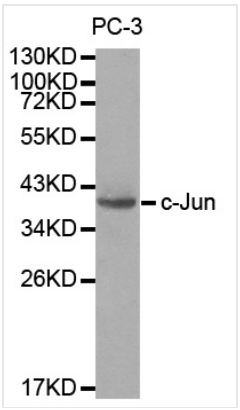
JUN Antibody – Rabbit Polyclonal

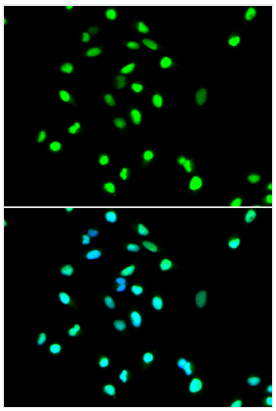
PRODUCT OVERVIEW

Product Name	JUN, Polyclonal Antibody
Full Product Name	JUN Antibody
Product Gene Name	anti-JUN antibody
Product Synonym Names	JUN; AP-1; AP1; c-Jun
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total JUN protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	35,676 Da
OMIM	165160
3D Structure	ModBase 3D Structure for P05412
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human JUN.
Target Name	JUN
Product Categories/Family for anti-JUN antibody	Total protein Ab
Applications Tested/Suitable for anti-JUN antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-JUN antibody	Western blotting: 1:500 - 1:2000 Immunofluorescence: 1:50 - 1:200
Related Product Information for anti-JUN antibody	c-Jun is a member of the Jun Family containing c-Jun, JunB and JunD, and is a component of the transcription factor AP-1 (activator protein-1). AP-1 is composed of dimers of Fos, Jun and ATF family members and binds to and activates transcription at TRE/AP-1 elements (reviewed in 1). Extracellular signals including growth factors, chemokines and stress activate AP-1-dependent transcription. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 through SAPK/JNK (reviewed in 2). Knock-out studies in mice have shown that c-Jun is essential for embryogenesis (3), and subsequent studies have demonstrated roles for c-Jun in various tissues and developmental processes including axon regeneration (4), liver regeneration (5) and T cell development (6). AP-1 regulated genes exert diverse biological functions including cell proliferation, differentiation, and apoptosis, as well as transformation, invasion and metastasis, depending on cell type and context (7-9). Other target genes regulate survival as well as hypoxia and angiogenesis (8,10). c-Jun has emerged as a promising therapeutic target for cancer, vascular remodeling, acute inflammation, as well as rheumatoid arthritis (11,12).
Other Notes	Small volumes of anti-JUN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for JUN purchase	MBS9409299 is an antibody targeting JUN. Also known as JUN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-JUN antibody
Western blot analysis of extracts of PC3 cells, using c-Jun antibody.



Immunofluorescence (IF) of anti-JUN antibody
Immunofluorescence analysis of A549 cell using Jun antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JUN. It may not necessarily be applicable to this product.

NCBI GI #	4758616
NCBI GeneID	3725
NCBI Accession #	NP_002219.1
UniProt Primary Accession #	P05412
UniProt Secondary Accession #	Q6FHM7; Q96G93
UniProt Related Accession #	P05412
GenBank Nucleotide #	NM_002228.3
NCBI Official Full Name	transcription factor AP-1
NCBI Official Synonym Full Names	jun proto-oncogene
NCBI Official Symbol	JUN
NCBI Official Synonym Symbols	AP1; AP-1; c-Jun
UniProt Protein Name	Transcription factor AP-1
UniProt Synonym Protein Names	Activator protein 1; AP1; Proto-oncogene c-Jun; V-jun avian sarcoma virus 17 oncogene homolog; p39
Protein Family	Transcription factor
UniProt Gene Name	JUN
UniProt Synonym Gene Names	AP1
UniProt Entry Name	JUN_HUMAN
NCBI Protein Information	transcription factor AP-1
NCBI Summary for JUN	This gene is the putative transforming gene of avian sarcoma virus 17. It encodes a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression. This gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies. [provided by RefSeq, Jul 2008]

UniProt Comments for JUN	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. Involved in activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells (PubMed:24623306). Binds to the USP28 promoter in colorectal cancer (CRC) cells (PubMed:24623306).
Research Articles on JUN	**1.** Depressed HSV-induced c-Jun N-terminal kinase (JNK) phosphorylation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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