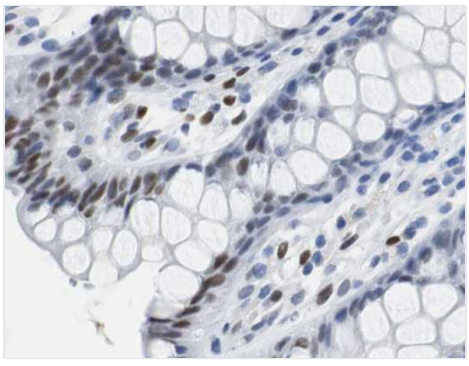
C-Jun (JUN) Antibody – Rabbit Polyclonal

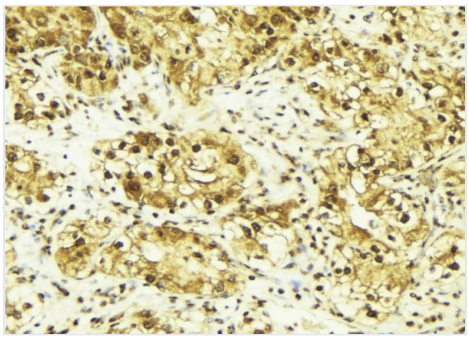
PRODUCT OVERVIEW

Product Name	c-Jun, Polyclonal Antibody
Full Product Name	c-Jun Antibody
Product Gene Name	anti-JUN antibody
Product Synonym Names	Activator protein 1; AP 1; AP1; cJun; Enhancer Binding Protein AP1; Jun Activation Domain Binding Protein; JUN; Jun oncogene; JUN protein; Jun proto oncogene; JUN_HUMAN; JUNC; Oncogene JUN; p39; Proto oncogene c jun; Proto oncogene cJun; Proto-oncogene c-jun; Transcription Factor AP 1; Transcription factor AP-1; Transcription Factor AP1; V jun avian sarcoma virus 17 oncogene homolog; V jun sarcoma virus 17 oncogene homolog (avian); V jun sarcoma virus 17 oncogene homolog; V-jun avian sarcoma virus 17 oncogene homolog; vJun Avian Sarcoma Virus 17 Oncogene Homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	c-Jun antibody detects endogenous levels of total c-Jun
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	c-Jun peptide (MBS9617264) is used for blocking the activity of c-Jun antibody (MBS9601723)
Molecular Weight	Observed: 37 kDa Predicted: 36 kDa
3D Structure	ModBase 3D Structure for P05412
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human c-Jun
Subcellular Location	Nucleus.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-JUN antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunoprecipitation (IP), ELISA (EIA)
Application Notes for anti-JUN antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

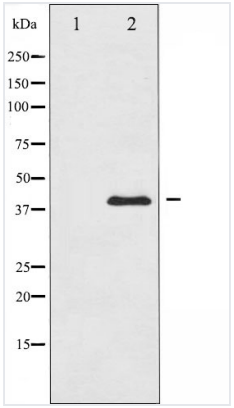
Related Product Information for anti-JUN antibody	Description: This gene is the putative transforming gene of avian sarcoma virus 17. It encodes a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression. Function: 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. 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). Subunit Structure: Heterodimer with either FOS or BATF3 or ATF7 (PubMed:10376527, PubMed:12087103, PubMed:15467742). The ATF7/JUN heterodimer is essential for ATF7 transactivation activity (PubMed:10376527). Interacts with DSIPI; the interaction inhibits the binding of active AP1 to its target DNA (By similarity). Interacts with HIVEP3 and MYBBP1A (By similarity). Interacts with SP1, SPIB and TCF20 (PubMed:10196196, PubMed:16478997, PubMed:8663478). Interacts with COPS5; the interaction leads indirectly to its phosphorylation (PubMed:8837781). Component of the SMAD3/SMAD4/JUN/FOS/complex which forms at the AP1 promoter site (PubMed:10995748). The SMAD3/SMAD4 heterodimer acts synergistically with the JUN/FOS heterodimer to activate transcription in response to TGF-beta (PubMed:9732876). 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 (PubMed:10995748). Interacts with methylated RNF187 (PubMed:20852630, PubMed:23624934). Binds to HIPK3. Interacts (when phosphorylated) with FBXW7 (PubMed:14739463). Found in a complex with PRR7 and FBXW7 (PubMed:27458189). Interacts with PRR7 and FBXW7; the interaction inhibits ubiquitination-mediated JUN degradation promoting its phosphorylation and transcriptional activity (PubMed:27458189). Post-translational Modifications: Ubiquitinated by the SCF(FBXW7), leading to its degradation (PubMed:14739463, PubMed:27458189). Ubiquitination takes place following phosphorylation, that promotes interaction with FBXW7 (PubMed:14739463). Phosphorylated by CaMK4 and PRKDC; phosphorylation enhances the transcriptional activity. Phosphorylated by HIPK3. Phosphorylated by DYRK2 at Ser-243; this primes the protein for subsequent phosphorylation by GSK3B at Thr-239. 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 and transformation. Phosphorylated by PLK3 following hypoxia or UV irradiation, leading to increase DNA-binding activity. Acetylated at Lys-271 by EP300. Similarity: Belongs to the bZIP family. Jun subfamily.
Product References and Citations for anti-JUN antibody	Wu Z, Wang T, Fang M, Huang W, Sun Z, Xiao J, Yan W; Journal: Biochem Biophys Res Commun. MFAP5 promotes tumor progression and bone metastasis by regulating ERK/MMP signaling pathways in breast cancer. Yan Ding, Pan Liu, Zhi-Lin Chen, Shao-Jun Zhang, You-Qin Wang, Xin Cai, Lei Luo, Xuan Zhou and Lei Zhao; Journal: FRONT PHARMACOL. Emodin attenuates lipopolysaccharide-induced acute liver injury through inhibiting the TLR4 signalin.
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	MBS9601723 is an antibody targeting JUN. Also known as c-Jun Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-JUN antibody
MBS9601723 at 1/100 staining human colon tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at113 degree



Immunohistochemistry (IHC) of anti-JUN antibody
MBS9601723 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-JUN antibody
Western blot analysis of c-Jun expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

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, AP-1 transcription factor subunit
NCBI Official Symbol	JUN
NCBI Official Synonym Symbols	AP1; p39; 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
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.** Our results suggest that extended AP-1 binding sites, together with adjacent binding sites for additional TFs, encode part of the information that governs transcription factor binding sites activity in the genome.
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