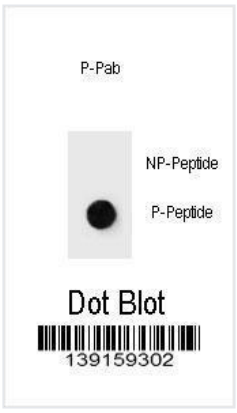
JUN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	JUN, Polyclonal Antibody
Full Product Name	JUN, phosphorylated (T289) (Jun, Transcription factor AP-1, AH119, Activator protein 1, Proto-oncogene c-Jun, V-jun avian sarcoma virus 17 oncogene homolog)
Product Gene Name	anti-JUN antibody
Product Synonym Names	Anti -JUN, phosphorylated (T289) (Jun, Transcription factor AP-1, AH119, Activator protein 1, Proto-oncogene c-Jun, V-jun avian sarcoma virus 17 oncogene homolog)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,676 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (59246463..59249785, complement). Location: 1p32-p31
OMIM	165160
3D Structure	ModBase 3D Structure for P05412
Immunogen	Phospho-mouse JUN-T289 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T289 of mouse JUN.
Product Categories/Family for anti-JUN antibody	Antibodies; Abs to Transcription Factors
Applications Tested/Suitable for anti-JUN antibody	ELISA (EL/EIA), Gel Shift Assay (GS/EMSA)
Application Notes for anti-JUN antibody	Suitable for use in Dot Blot, ELISA Dilution: ELISA: 1:1,000 Dot blot 1:500
Related Product Information for anti-JUN antibody	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.
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	MBS647654 is an antibody targeting JUN. Also known as JUN, phosphorylated (T289) (Jun, Transcription factor AP-1, AH119, Activator protein 1, Proto-oncogene c-Jun, V-jun avian sarcoma virus 17 oncogene homolog). Reactive in Mouse. Host: Rabbit.



Dot Blot (DB) of anti-JUN antibody
Dot blot analysis of Phospho-mouse JUN-T289 Antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

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

NCBI GI #	386839
NCBI GeneID	3725
NCBI Accession #	AAA59197.1
UniProt Primary Accession #	P05412
UniProt Secondary Accession #	Q96G93
UniProt Related Accession #	P05412
NCBI Official Full Name	JUN
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; p39; jun oncogene; activator protein 1; proto-oncogene c-Jun; enhancer-binding protein AP1; Jun activation domain binding protein; v-jun sarcoma virus 17 oncogene homolog; v-jun avian sarcoma virus 17 oncogene homolog

UniProt Comments for JUN	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. Ref.15 Ref.19 Subunit structure: 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 By similarity. Interacts with HIVEP3 and MYBBP1A By similarity. 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. Ref.10 Ref.11 Ref.12 Ref.13 Ref.14 Ref.15 Ref.17 Ref.18 Ref.20 Ref.26 Subcellular location: Nucleus. Post-translational modification: 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. Ref.7 Ref.8 Ref.9 Ref.19 Ref.21 Ref.22 Ref.28 Ref.30Acetylated at Lys-271 by EP300. Sequence similarities: Belongs to the bZIP family. Jun subfamily.Contains 1 bZIP (basic-leucine zipper) domain.
Research Articles on JUN	**1.** Activator protein-1 has a role in multidrug resistance associated protein 3 upregulation by 17alpha-ethynylestradiol.
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