

c-Jun Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1604a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P05412
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	4H9
Isotype	IgG1
Calculated MW	35676
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. This gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies.
Immunogen	Purified recombinant fragment of human c-Jun expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	3725
Other Names	Transcription factor AP-1, Activator protein 1, AP1, Proto-oncogene c-Jun, V-jun avian sarcoma virus 17 oncogene homolog, p39, JUN
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	c-Jun Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	JUN
Function	Transcription factor that recognizes and binds to the AP-1 consensus motif

5'-TGA[GC]TCA-3' (PubMed:[10995748](#), PubMed:[22083952](#)). Heterodimerizes with proteins of the FOS family to form an AP-1 transcription complex, thereby enhancing its DNA binding activity to the AP-1 consensus sequence 5'-TGA[GC]TCA-3' and enhancing its transcriptional activity (By similarity). Together with FOSB, plays a role in activation-induced cell death of T cells by binding to the AP-1 promoter site of FASLG/CD95L, and inducing its transcription in response to activation of the TCR/CD3 signaling pathway (PubMed:[12618758](#)). Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation (PubMed:[17210646](#)). 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](#)).

Cellular Location

Nucleus.

Tissue Location

Expressed in the developing and adult prostate and prostate cancer cells.

References

1. J Biol Chem. 2010 Mar 12;285(11):8218-26. 2. Mol Cancer. 2010 May 19;9:111.

Images

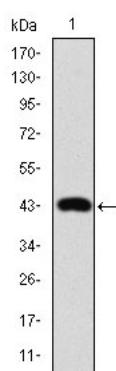


Figure 1: Western blot analysis using c-Jun mAb against human c-Jun (AA: 199-331) recombinant protein.

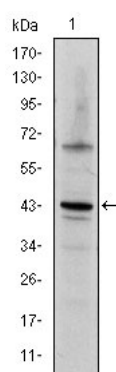


Figure 2: Western blot analysis using c-Jun mouse mAb against NIH/3T3 cell lysate.

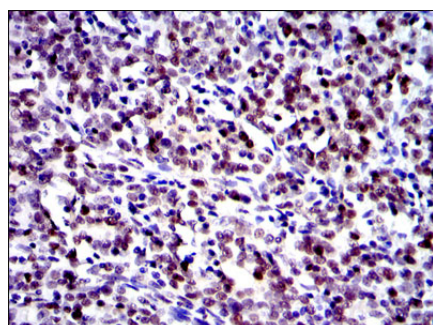


Figure 3: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using c-Jun mouse mAb with DAB staining.

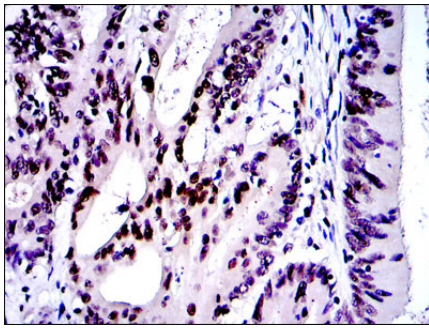


Figure 4: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using c-Jun mouse mAb with DAB staining.

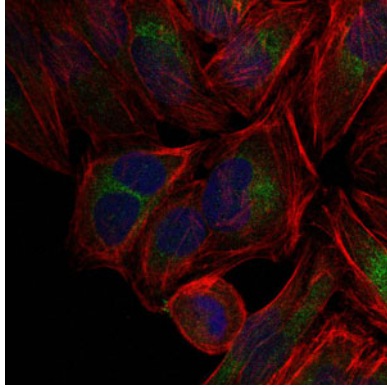


Figure 5: Immunofluorescence analysis of HeLa cells using c-Jun mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.