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c-Jun Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1596a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P05412
Reactivity	Human, Mouse, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	5B1
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 FC~~1/200 - 1/400 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

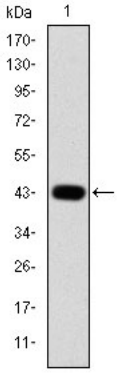


Figure 1: Western blot analysis using c-Jun mAb against human c-Jun (AA: 199-331) recombinant protein.

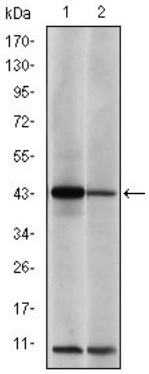


Figure 2: Western blot analysis using c-Jun mouse mAb against NIH/3T3 (1) and Cos7 (2) cell lysate.

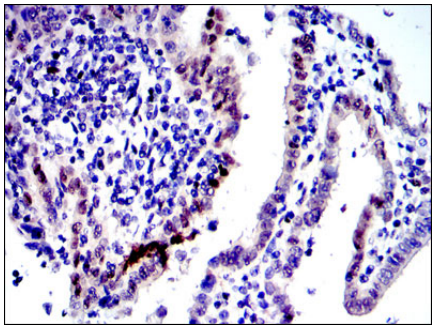


Figure 3: Immunohistochemical analysis of paraffin-embedded human intima canncer tissues using c-Jun mouse mAb with DAB staining.

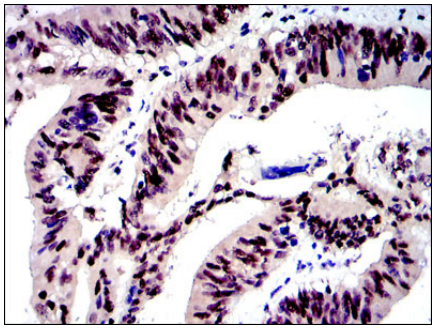


Figure 4: Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using c-Jun mouse mAb with DAB staining.

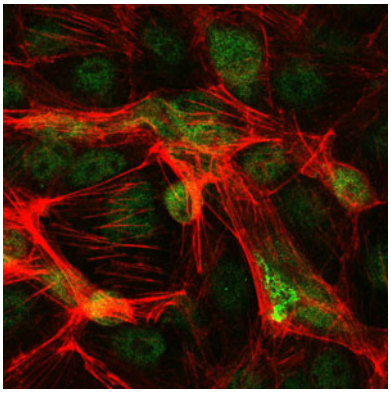


Figure 5: Immunofluorescence analysis of PC-2 cells using c-Jun mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

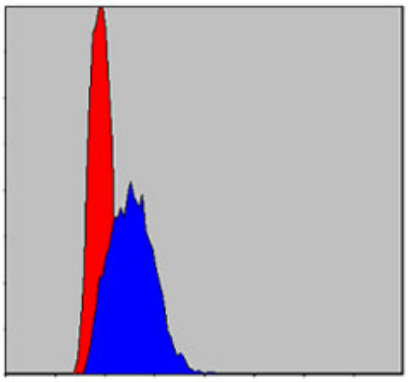


Figure 6: Flow cytometric analysis of HepG2 cells using c-Jun mouse mAb (blue) and negative control (red).

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