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c-Jun Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1604a

Specification

c-Jun Antibody - Product Information

Application	**E, WB, IHC, IF**
Primary Accession	P05412
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**43kDa KDa**

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.

c-Jun Antibody - 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
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000

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.

c-Jun Antibody - 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).

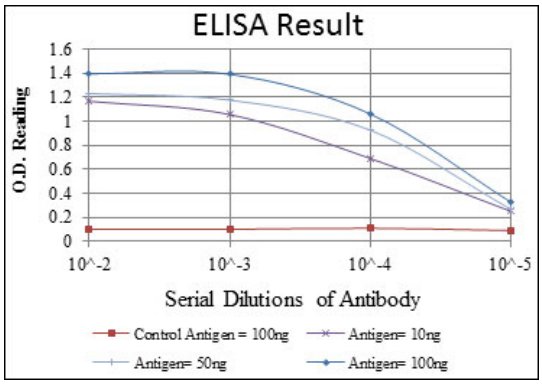
Cellular Location
Nucleus.

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

c-Jun Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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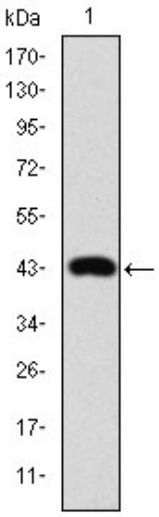


Figure 1: Western blot analysis using c-Jun mAb against human c-Jun (AA: 199-331) recombinant protein.

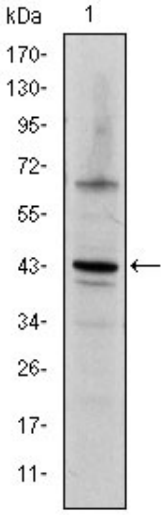


Figure 2: Western blot analysis using c-Jun mouse mAb against NIH/3T3 cell lysate.

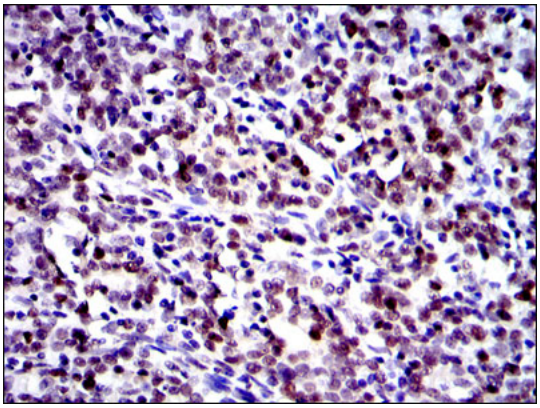


Figure 3: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using c-Jun mouse mAb with DAB staining.

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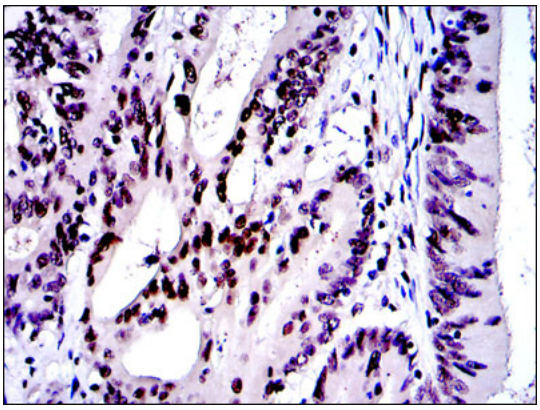


Figure 4: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using c-Jun mouse mAb with DAB staining.

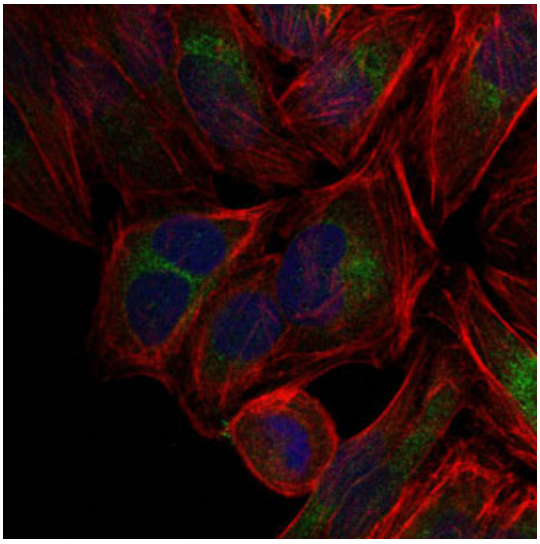


Figure 5: Immunofluorescence analysis of Hela cells using c-Jun mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

c-Jun Antibody - References

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