

# c-Jun Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1596a

## Product Information

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|--------------------------|---|
| <b>Application</b>       | WB, IHC, FC, ICC, E   |
| <b>Primary Accession</b> | <a href="#">P05412</a>  |
| <b>Reactivity</b>        | Human, Mouse, Monkey  |
| <b>Host</b>              | Mouse   |
| <b>Clonality</b>         | Monoclonal  |
| <b>Clone Names</b>       | 5B1   |
| <b>Isotype</b>           | IgG1  |
| <b>Calculated MW</b>     | 35676   |
| <b>Description</b>       | 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. |
| <b>Immunogen</b>         | Purified recombinant fragment of human c-Jun expressed in E. Coli.  |
| <b>Formulation</b>       | Ascitic fluid containing 0.03% sodium azide.  |

## Additional Information

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| <b>Gene ID</b>     | 3725   |
| <b>Other Names</b> | Transcription factor AP-1, Activator protein 1, AP1, Proto-oncogene c-Jun, V-jun avian sarcoma virus 17 oncogene homolog, p39, JUN       |
| <b>Dilution</b>    | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A<br>E~~1/10000  |
| <b>Storage</b>     | 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. |
| <b>Precautions</b> | c-Jun Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|-------------|-----|
| <b>Name</b> | JUN |
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## 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

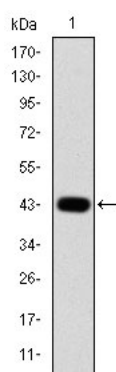


Figure 1: Western blot analysis using c-Jun mAb against human c-Jun (AA: 199-331) recombinant protein.

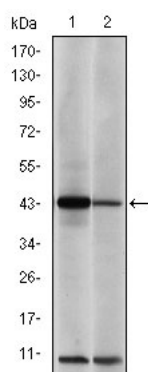


Figure 2: Western blot analysis using c-Jun mouse mAb against NIH/3T3 (1) and Cos7 (2) cell lysate.

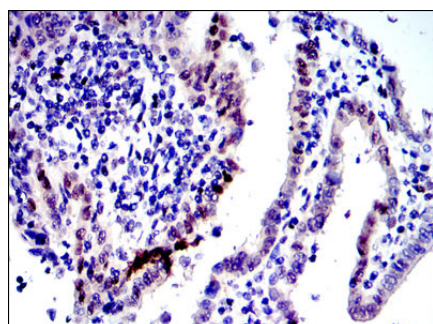


Figure 3: Immunohistochemical analysis of paraffin-embedded human intima cancer tissues using c-Jun mouse mAb with DAB staining.

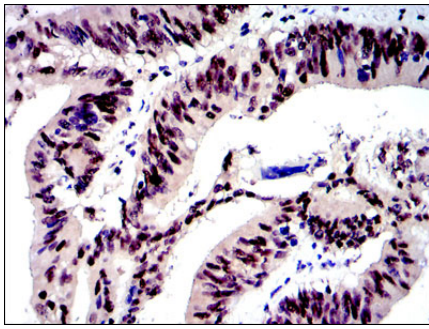


Figure 4: Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using c-Jun mouse mAb with DAB staining.

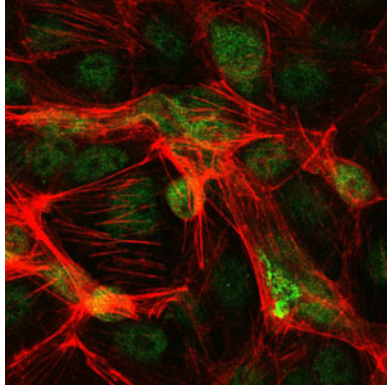


Figure 5: Immunofluorescence analysis of PC-2 cells using c-Jun mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

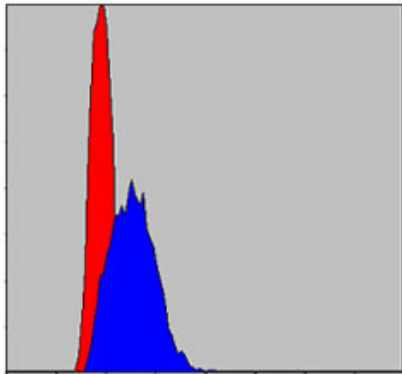


Figure 6: Flow cytometric analysis of HepG2 cells using c-Jun mouse mAb (blue) and negative control (red).

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