

# JUN antibody

Purified Mouse Monoclonal Antibody (Mab) Catalog # AM8428b

### **Product Information**

WB, E
<u>P05412</u>
Human, Mouse
Mouse
Monoclonal
IgG1,k
1306CT545.208.117
35676

## **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
Target/Specificity	This antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from human.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	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: <u>10995748</u> , PubMed: <u>22083952</u> ). 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: <u>12618758</u> ). Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation (PubMed: <u>17210646</u> ). Involved in activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells (PubMed: <u>24623306</u> ). Binds to the USP28 promoter in colorectal cancer (CRC) cells (PubMed: <u>24623306</u> ).
Cellular Location	Nucleus.
Tissue Location	Expressed in the developing and adult prostate and prostate cancer cells.

#### Background

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.

#### References

Hattori K.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:9148-9152(1988). Bohmann D.,et al.Science 238:1386-1392(1987). Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases. Gregory S.G.,et al.Nature 441:315-321(2006). Boyle W.J.,et al.Cell 64:573-584(1991).

#### Images



Western blot analysis of lysates from 293, mouse NIH/3T3 cell line (from left to right), using JUN Antibody(Cat. #AM8428b). AM8428b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

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