

#### KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody Rabbit monoclonal antibody Catalog # AGI1128

### **Specification**

## **KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody - Product Information**

Application Primary Accession Reactivity Clonality Isotype Calculated MW Gene Name Aliases	WB, FC, ICC <u>P05412</u> Human, Mouse Monoclonal Rabbit IgG Predicted, 36 kDa , observed, 39 kDa KDa JUN JUN; Jun Proto-Oncogene, AP-1 Transcription Factor Subunit; V-Jun Avian Sarcoma Virus 17 Oncogene Homolog; AP-1; Transcription Factor AP-1 Subunit Jun; Transcription Factor Jun; Proto-Oncogene C-Jun; Activator Protein 1; Jun Oncogene; C-Jun; AP1; P39; V-Jun Sarcoma Virus 17; Oncogene Homolog; Jun Activation Domain Binding Protein; Enhancer-Binding Protein AP1; Transcription Factor AP-1; Proto-Oncogene
Immunogen	A synthesized peptide derived from human c-Jun

### KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody - Additional Information

Gene ID 3725 Other Names Transcription factor Jun, Activator protein 1, AP1, Proto-oncogene c-Jun, Transcription factor AP-1 subunit Jun, V-jun avian sarcoma virus 17 oncogene homolog, p39, JUN

### KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody - Protein Information

Name JUN

#### Function

Transcription factor that recognizes and binds to the AP-1 consensus motif 5'-TGA[GC]TCA-3' (PubMed:<a href="http://www.uniprot.org/citations/10995748" target="\_blank">10995748</a>, PubMed:<a href="http://www.uniprot.org/citations/22083952" target="\_blank">22083952</a>). 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:<a



href="http://www.uniprot.org/citations/12618758" target="\_blank">12618758</a>). Promotes
activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene
expression upon cAMP signaling pathway stimulation (PubMed:<a
href="http://www.uniprot.org/citations/17210646" target="\_blank">17210646</a>). Involved in
activated KRAS-mediated transcriptional activation of USP28 in colorectal cancer (CRC) cells
(PubMed:<a href="http://www.uniprot.org/citations/24623306" target="\_blank">24623306</a>).
Binds to the USP28 promoter in colorectal cancer (CRC) cells (PubMed:<a
href="http://www.uniprot.org/citations/24623306" target="\_blank">24623306</a>).

**Cellular Location** Nucleus.

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

# KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### KD-Validated Anti-c-Jun Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-c-Jun antibody (Cat#AGI1128). Total cell lysates ( $30 \mu g$ ) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-c-Jun antibody (Cat#AGI1128, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Western blotting analysis using anti-c-Jun antibody (Cat#AGI1128). C-Jun expression in wild-type (WT) and JUN shRNA knockdown (KD) C2C12 cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-c-Jun antibody (Cat#AGI1128, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of c-Jun expression in HT-1080 cells using c-Jun antibody (Cat#AGI1128, 1:2,000). Green, isotype control; red, c-Jun.



Immunocytochemical staining of HT-1080 cells with C-Jun antibody (Cat#AGI1128, 1:1,000). Nuclei were stained blue with DAPI; C-Jun was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.