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# Phospho-cJun(S63) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3073a

## Product Information

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|---|---|
| **Application** | DB, WB, IHC-P, E |
| **Primary Accession** | P05412 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB5193 |
| **Calculated MW** | 35676 |

## Additional Information

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|---|---|
| **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 cJun Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S63 of human cJun. |
| **Dilution** | DB~~1:500 WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **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** | Phospho-cJun(S63) Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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.

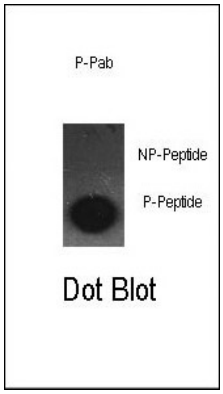
## Background

The gene for cJun is the putative transforming gene of avian sarcoma virus 17. The cJun protein is a transcription factor highly similar to the viral protein, and interacts directly with specific target DNA sequences to regulate gene expression. The gene maps to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies.

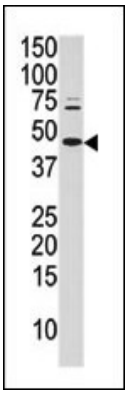
## References


Cheng, J., et al., J. Biol. Chem. 280(15):14492-14498 (2005).
Quan, T., et al., J. Biol. Chem. 280(9):8079-8085 (2005).
Bladh, L.G., et al., Mol. Pharmacol. 67(3):815-826 (2005).
DeNardo, D.G., et al., Mol. Endocrinol. 19(2):362-378 (2005).
Cheung, E., et al., Proc. Natl. Acad. Sci. U.S.A. 102(3):559-564 (2005).

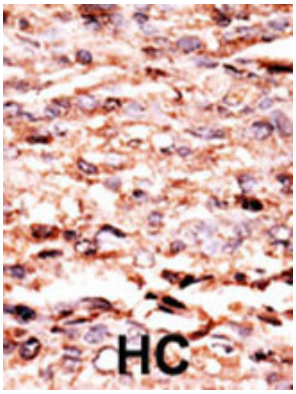

## Images




Dot blot analysis of anti-Phospho-cJun-S63 Antibody (Cat. #AP3073a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.




Western blot analysis of anti-Phospho-cJun-pS63 Pab (Cat. #AP3073a) in mouse brain tissue lysate (35ug/lane). Mouse Phospho-cJun-pS63(arrow) was detected using the purified Pab.




Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

## Citations

- The DNMT1-associated lincRNA DACOR1 reprograms genome-wide DNA methylation in colon cancer.