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Phospho-cJun(S63) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3073a

Specification

Phospho-cJun(S63) Antibody - Product Information

Application	**IHC-P, DB, WB,E**
Primary Accession	P05412
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Phospho-cJun(S63) 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

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
IHC-P~~1:50~100
DB~~1:500
WB~~1:1000
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.

Phospho-cJun(S63) 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.

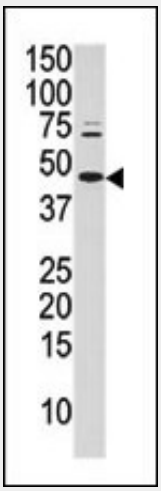
Tissue Location
Expressed in the developing and adult prostate and prostate cancer cells.

Phospho-cJun(S63) 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

Phospho-cJun(S63) Antibody - Images



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.

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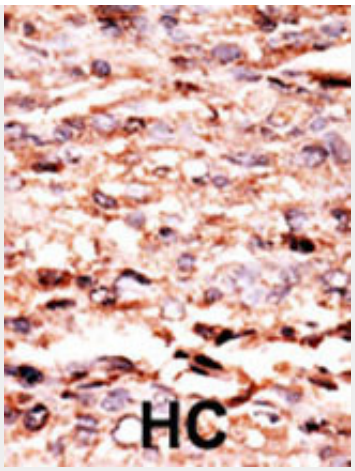
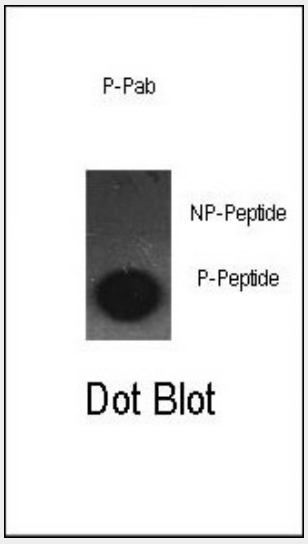


Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast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



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.

Phospho-cJun(S63) Antibody - 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.

Phospho-cJun(S63) Antibody - 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).

Phospho-cJun(S63) Antibody - Citations

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

colon cancer.