

## AP-1/Jun D (phospho Ser73/100) Polyclonal Antibody

Catalog No: YP0014

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: c-JUN

**Fields:** >>Endocrine resistance;>>MAPK signaling pathway;>>ErbB signaling

pathway;>>cAMP signaling pathway;>>Mitophagy - animal;>>Apoptosis;>>Wnt signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>Tight junction;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling

pathway;>>C-type lectin receptor signaling pathway;>>IL-17 signaling

pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>TNF signaling

pathway;>>Neurotrophin signaling pathway;>>GnRH signaling

pathway;>>Estrogen signaling pathway;>>Oxytocin signaling pathway;>>Relaxin signaling pathway;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling

pathway in diabetic complications;>>Cocaine addiction;>>Amphetamine

addiction;>>Epithelial cell signaling in Helicobacter pylori infection;>>Pathogenic

Escherichia coli infection;>>Shigellosis;>>Salmonella

infection;>>Pertussis;>>Yersinia infection;>>Leishmaniasis;>>Chagas di

Gene Name: JUN/JUND

Protein Name: Transcription factor AP-1; jun; c-jun AP-1; Transcription factor jun-D

**Human Gene Id:** 3725/3728

Human Swiss Prot P05412/P17535

No:

**Mouse Gene Id:** 16476/16478

**Rat Gene Id:** 24516/24518

**Rat Swiss Prot No:** P17325/P52909

**Immunogen:** The antiserum was produced against synthesized peptide derived from human c-

Jun around the phosphorylation site of Ser73. AA range:40-89



Specificity: Phospho-AP-1 (S73) Polyclonal Antibody detects endogenous levels of AP-1

protein only when phosphorylated at S73.

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Source :** Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 39-42kD

Cell Pathway: MAPK\_ERK\_Growth;MAPK\_G\_Protein;ErbB\_HER;WNT;WNT-T CELLFocal a

dhesion; Toll Like; T Cell Receptor; B Cell Antigen; Neurotrophin; GnRH; Epithelia

I cell signaling in Helicobacter pylori infection; Pathways in c

**Background:** 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. [provided by RefSeq,

Jul 2008],

**Function:** function: Transcription factor that recognizes and binds to the enhancer

heptamer motif 5'-TGA[CG]TCA-3'.,PTM:Phosphorylation enhances the

transcriptional activity. Phosphorylated by PRKDC.,similarity:Belongs to the bZIP family.,similarity:Belongs to the bZIP family. Jun subfamily.,similarity:Contains 1 bZIP domain.,subunit:Heterodimer with either FOS or BATF3. Interacts with HIVEP3 (By similarity). Interacts with SMAD3/SMAD4 heterodimers. Interacts with MYBBP1A, SPIB and TCF20. Interacts with COPS5; indirectly leading to its phosphorylation. Interacts with DSIPI; this interaction inhibits the binding of active

AP1 to its target DNA.,

Subcellular Location :

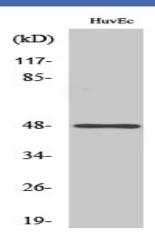
Nucleus.

**Expression:** 

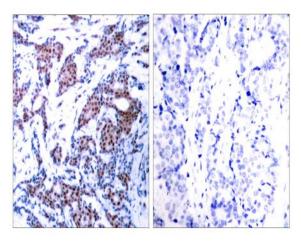
Expressed in the developing and adult prostate and prostate cancer cells.



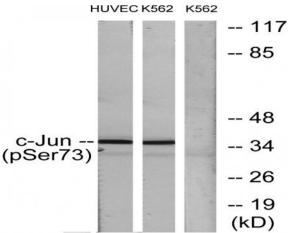
## **Products Images**



Western Blot analysis of HuvEc cells using Phospho-AP-1/Jun D (S73/100) Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using c-Jun (Phospho-Ser73) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with TNF 20ng/ml 5' and K562 cells treated with TNF 20ng/ml 5', using c-Jun (Phospho-Ser73) Antibody. The lane on the right is blocked with the phospho peptide.