Best Tools for immunology Research

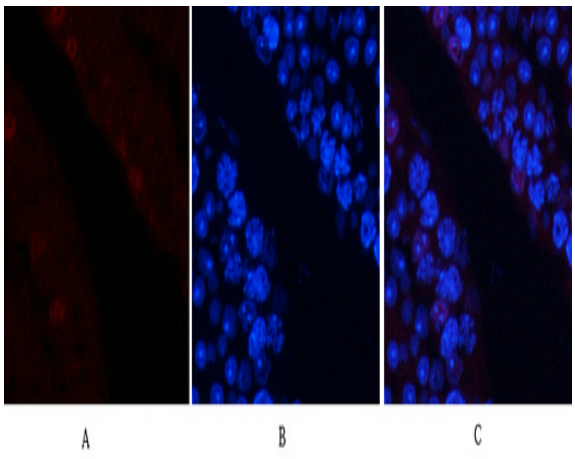
AP-1 (phospho Ser63) Polyclonal Antibody

Catalog No :	YP0013
Reactivity :	Human;Mouse;Rat
Applications :	IF;WB;IHC;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
Protein Name :	Transcription factor AP-1;jun;c-jun?AP-1
Human Gene Id :	3725
Human Swiss Prot No :	P05412
Mouse Gene Id :	16476
Mouse Swiss Prot No :	P05627
Rat Gene Id :	24516
Rat Swiss Prot No :	P17325

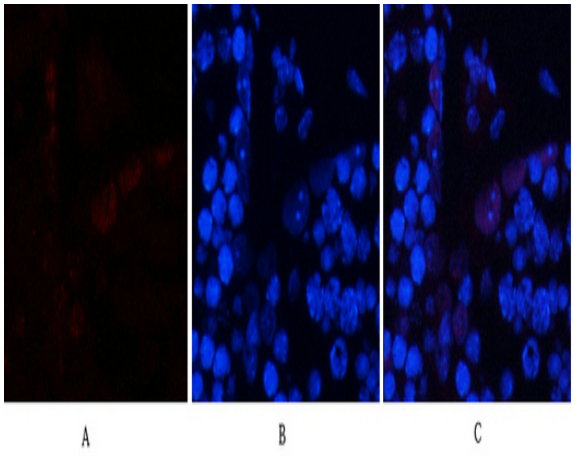
Immunogen :	The antiserum was produced against synthesized peptide derived from human c-Jun around the phosphorylation site of Ser63. AA range:31-80
Specificity :	Phospho-AP-1 (S63) Polyclonal Antibody detects endogenous levels of AP-1 protein only when phosphorylated at S63.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:50-200 WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet tested in other applications.
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 adhesion;Toll_Like;T_Cell_Receptor;B_Cell_Antigen;Neurotrophin;GnRH;Epithelial 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.
Tag :	orthogonal
Sort :	2084
No2 :	2361S
No4 :	1
Host :	Rabbit
Modifications :	Phospho

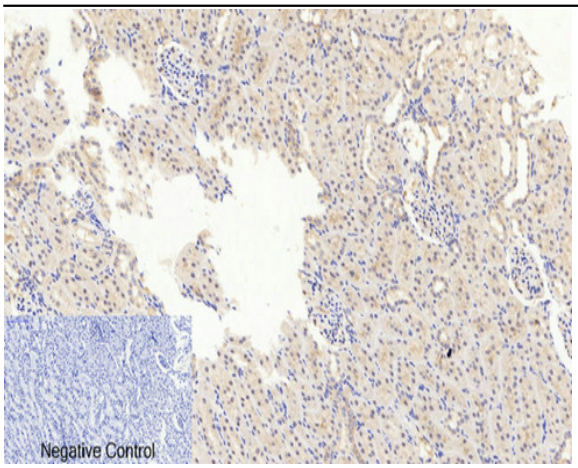
Products Images



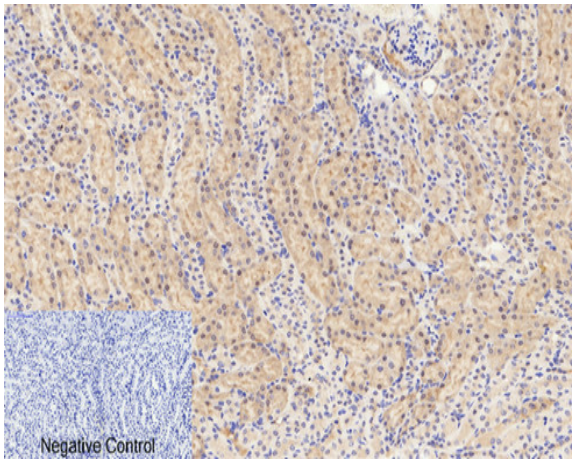
Immunofluorescence analysis of mouse-testis tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



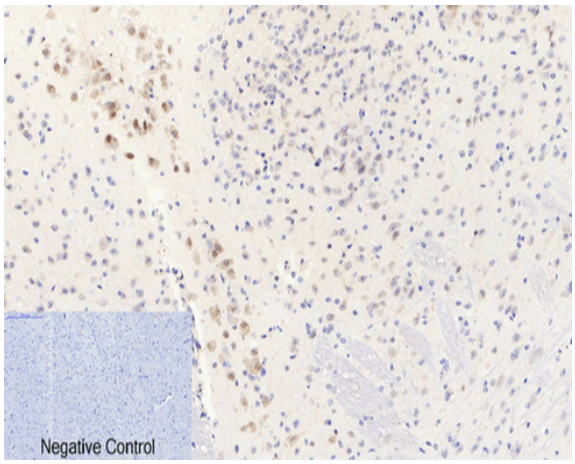
Immunofluorescence analysis of mouse-testis tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



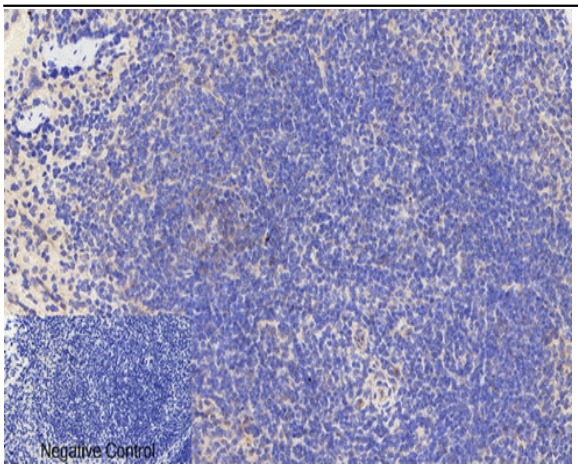
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



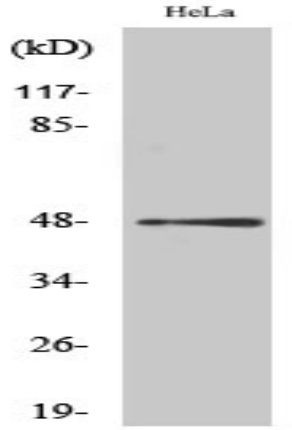
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



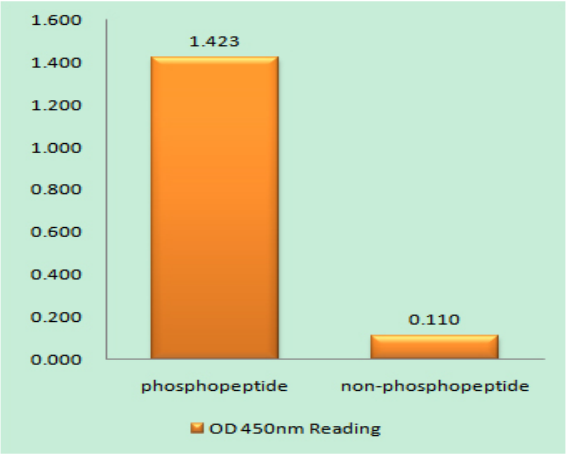
Immunohistochemical analysis of paraffin-embedded Mouse-brain tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



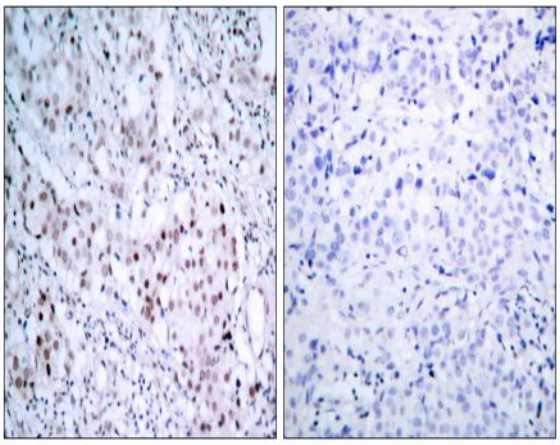
Immunohistochemical analysis of paraffin-embedded Mouse-spleen tissue. 1,AP-1 (phospho Ser63) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



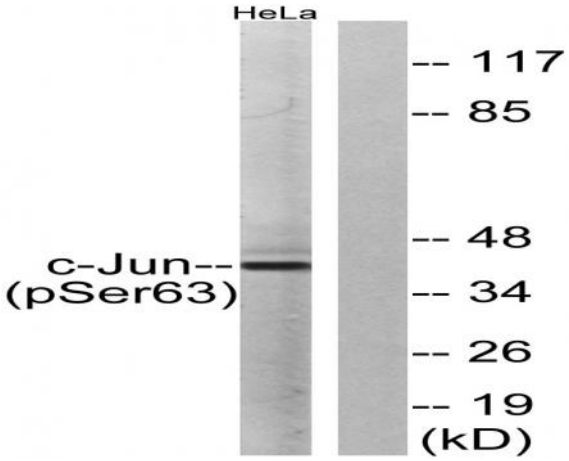
Western Blot analysis of various cells using Phospho-AP-1 (S63) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using c-Jun (Phospho-Ser63) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using c-Jun (Phospho-Ser63) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with UV, using c-Jun (Phospho-Ser63) Antibody. The lane on the right is blocked with the phospho peptide.