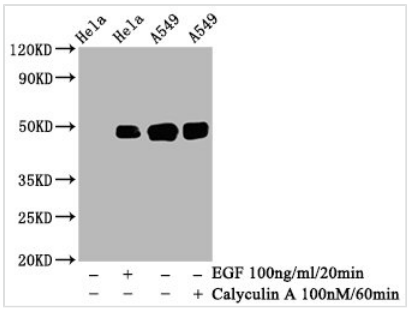
Phospho-JUN (S63) Recombinant Monoclonal Antibody

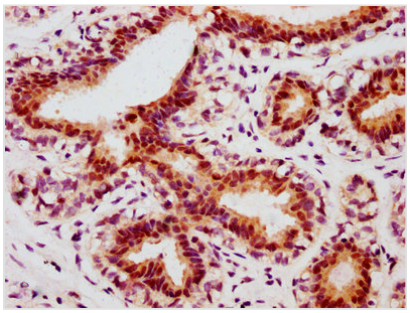
Product Code	CSB-RA011972A63phHU
Abbreviation	Transcription factor AP-1
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05412
Immunogen	A synthesized peptide derived from Human Phospho-JUN (S63)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200
Relevance	Transcription factor that recognizes and binds to the enhancer heptamer motif 5'-TGA[CG]TCA-3'. Promotes activity of NR5A1 when phosphorylated by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. 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).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Activator protein 1 antibody; AP 1 antibody; AP-1 antibody; AP1 antibody; cJun antibody; Enhancer Binding Protein AP1 antibody; Jun Activation Domain Binding Protein antibody; JUN antibody; Jun oncogene antibody; JUN protein antibody; Jun proto oncogene antibody; JUN_HUMAN antibody; JUNC antibody; Oncogene JUN antibody; p39 antibody; Proto oncogene c jun antibody; Proto oncogene cJun antibody; Proto-oncogene c-jun antibody; Transcription Factor AP 1 antibody; Transcription factor AP-1 antibody; Transcription Factor AP1 antibody; V jun avian sarcoma virus 17 oncogene homolog antibody; V jun sarcoma virus 17 oncogene homolog (avian) antibody; V jun sarcoma virus 17 oncogene homolog antibody; V-jun avian sarcoma virus 17 oncogene homolog antibody; vJun Avian Sarcoma Virus 17 Oncogene Homolog antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	JUN

Clone No. 4A11

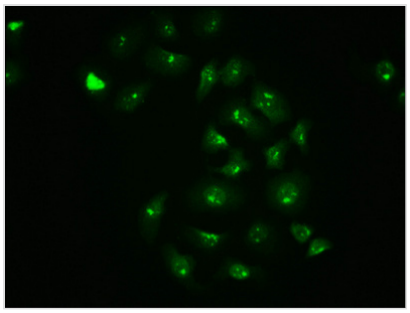
Image



Western Blot
Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate(treated with Calyculin A or EGF)
All lanes: Phospho-JUN antibody at 0.95μg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 48 KDa
Observed band size: 48 KDa



IHC image of CSB-RA011972A63phHU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of A549 cells with CSB-RA011972A63phHU at 1:100,counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

CUSABIO designed the vector clones for the expression of a recombinant JUN antibody in mammalian cells. The vector clones were obtained by inserting the JUN antibody heavy and light chains into the plasma vectors. The recombinant JUN antibody was purified from the culture medium through affinity-chromatography. It can be used to detect JUN protein from Human in the ELISA, WB, IHC, IF.

The phospho-JUN (S63) antibody can be used to detect the endogenous levels of the JUN phosphorylated at Ser63 residue. The phosphorylation of Ser63 in the NH2-terminal transactivation domain of JUN is required for its transcriptional activity. The phosphorylation of JUN has also been linked to the mediation of apoptosis when survival signals are interrupted. JUN is involved in various cellular processes, including proliferation, apoptosis, survival, tumorigenesis, and tissue morphogenesis.