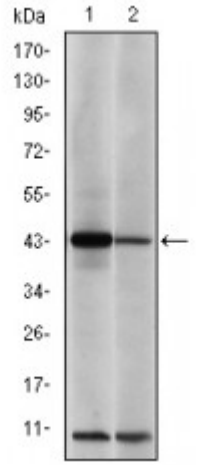
Anti-AP-1 antibody



Description	Mouse monoclonal to AP-1.

Model	STJ97829
Host	Mouse
Reactivity	Human, Mouse, Simian
Applications	ELISA, FC, IF, IHC, WB
Immunogen	Purified recombinant fragment of human AP-1 expressed in E. Coli.
Gene ID	3725
Gene Symbol	JUN
Dilution range	WB 1:500-1:2000IHC 1:200-1:1000IF 1:200-1:1000FC 1:200-1:400ELISA 1:10000
Specificity	AP-1 Monoclonal Antibody detects endogenous levels of AP-1 protein.
Purification	Affinity purification
Clone ID	5B1
Note	For Research Use Only (RUO).
Protein Name	Transcription factor AP-1 Activator protein 1 AP1 Proto-oncogene c-Jun V-jun avian sarcoma virus 17 oncogene homolog p39
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1

Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6204OMIM:165160
Alternative Names	Transcription factor AP-1 Activator protein 1 AP1 Proto-oncogene c-Jun V-jun avian sarcoma virus 17 oncogene homolog p39
Function	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 . Binds to the USP28 promoter in colorectal cancer (CRC) cells .
Cellular Localization	Nucleus.
Post-translational Modifications	Ubiquitinated by the SCF(FBXW7), leading to its degradation. Ubiquitination takes place following phosphorylation, that promotes interaction with FBXW7. Phosphorylated by CaMK4 and PRKDC; phosphorylation enhances the transcriptional activity. Phosphorylated by HIPK3. Phosphorylated by DYRK2 at Ser-243; this primes the protein for subsequent phosphorylation by GSK3B at Thr-239. Phosphorylated at Thr-239, Ser-243 and Ser-249 by GSK3B; phosphorylation reduces its ability to bind DNA. Phosphorylated by PAK2 at Thr-2, Thr-8, Thr-89, Thr-93 and Thr-286 thereby promoting JUN-mediated cell proliferation and transformation. Phosphorylated by PLK3 following hypoxia or UV irradiation, leading to increase DNA-binding activity. Acetylated at Lys-271 by EP300.