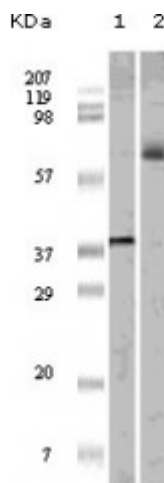


Anti-Elk1 antibody



Description

Mouse monoclonal to Elk1.

Model

STJ98017

Host

Mouse

Reactivity

Human

Applications

ELISA, IHC, WB

Immunogen

Purified recombinant fragment of Elk1 expressed in E. Coli.

Gene ID

[2002](#)

Gene Symbol

[ELK1](#)

Dilution range

WB 1:500-1:2000 IHC 1:200-1:1000 ELISA 1:10000

Specificity

Elk1 Monoclonal Antibody detects endogenous levels of Elk1 protein.

Tissue Specificity

Lung and testis.

Purification

Affinity purification

Clone ID

3H6D12 / 4H9C8 / 4H9F1

Note

For Research Use Only (RUO).

Protein Name

ETS domain-containing protein Elk-1

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:3321OMIM:311040
Alternative Names	ETS domain-containing protein Elk-1
Function	Transcription factor that binds to purine-rich DNA sequences. Forms a ternary complex with SRF and the ETS and SRF motifs of the serum response element (SRE) on the promoter region of immediate early genes such as FOS and IER2. Induces target gene transcription upon JNK-signaling pathway stimulation .
Cellular Localization	Nucleus.
Post-translational Modifications	Sumoylation represses transcriptional activator activity as it results in recruitment of HDAC2 to target gene promoters which leads to decreased histone acetylation and reduced transactivator activity. It also regulates nuclear retention.; On mitogenic stimulation, phosphorylated on C-terminal serine and threonine residues by MAPK1. Ser-383 and Ser-389 are the preferred sites for MAPK1. In vitro, phosphorylation by MAPK1 potentiates ternary complex formation with the serum responses factors, SRE and SRF. Also phosphorylated on Ser-383 by MAPK8 and/or MAPK9. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity. Phosphorylated and activated by CAMK4, MAPK11, MAPK12 and MAPK14. Upon bFGF stimulus, phosphorylated by PAK1 .