Product Name: ELK1 Mouse Monoclonal Antibody
Catalog #: AMM80566
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	/

Antigen Information

Gene Name	ELK1
Alternative Names	ELK1
Gene ID	2002.0
SwissProt ID	P19419
Immunogen	Purified recombinant fragment of ELK1 expressed in E. Coli.

Background

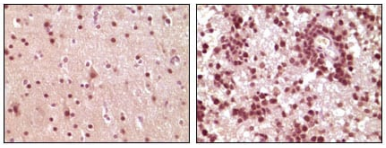
The transcription factor ELK1 is a family of member of ETS oncogene family and of the ternary complex factor (TCF) subfamily,which is located on chromosome Xp11.2 and stimulates transcription. binds to purine-rich DNA sequences. Proteins of the TCF subfamily form a ternary complex by binding to the the serum response factor and the serum reponse element in the

promoter of the c-fos proto-oncogene. The protein encoded by this gene is a nuclear target for the ras-raf-MAPK signaling cascade. Elk1 is phosphorylated by MAP kinase pathways at a cluster of S/T motifs at its C terminus,It appears to be a direct target of activated MAP kinase. Biochemical studies indicate that Elk1 is a good substrate for MAP kinase, the kinetics of Elk1phosphorylation and activation correlate with MAP kinase activity, and interfering mutants of MAP kinase block Elk1 activation in vivo. More recent studies have shown that Elk1 is also a target of the Stress Activated Kinase SAPK/JNK. Phosphorylation of Elk1 has also been implicated in synaptic plasticity in the adult hippocampus.

Research Area

MAPK signaling pathway

Image Data



Immunohistochemical analysis of paraffin-embedded human brain tumor tissue, showing nuclear and cytoplasmic localization using ELK1 mouse mAb with DAB staining.