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Product datasheet for AM06146SU-N

ELK1 Mouse Monoclonal Antibody [Clone ID: 3H6D12]

Product data:

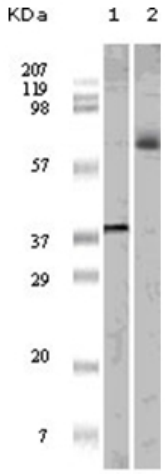
Product Type:	Primary Antibodies
Clone Name:	3H6D12
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA:** 1/10000. **Western Blot:** 1/500 - 1/2000. **Immunohistochemistry on Paraffin Sections:** 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of ELK1 expressed in E. Coli.
Specificity:	Recognizes ELK1
Formulation:	State: Ascites State: Ascitic fluid Preservative: 0.03% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ELK1, ETS transcription factor
Database Link:	Entrez Gene 2002 Human P19419

View online »

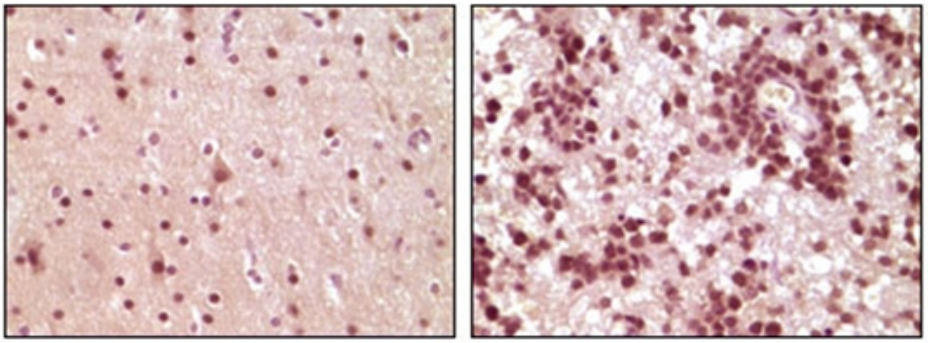
Background: The transcription factor ELK1 is a family of member of ETS oncogene family and of the ternary complex factor (TCF) subfamily,which is located on chromosome Xp11.2 and stimulates transcription. binds to purine-rich DNA sequences. Proteins of the TCF subfamily form a ternary complex by binding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

Synonyms: Elk-1

Product images:



Western blot analysis using ELK1 antibody Cat.-No AM06146SU-N against truncated ELK1 recombinant protein (Lane 1) and K562 cell lysate (Lane 2).



Immunohistochemical analysis of paraffin-embedded human brain tumor tissue, showing nuclear and cytoplasmic localization using ELK1 antibody Cat.-No AM06146SU-N with DAB staining.