

Product datasheet for **AM06147SU-N**

ELK1 Mouse Monoclonal Antibody [Clone ID: 7E10D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7E10D5
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of ELK1 expressed in E. Coli.
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



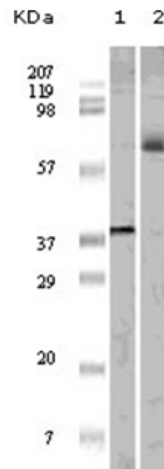
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Background:

The transcription factor ELK1 is a family member of the ETS oncogene family and of the ternary complex factor (TCF) subfamily, which is located on chromosome Xp11.2 and stimulates transcription. It binds to purine-rich DNA sequences. Proteins of the TCF subfamily form a ternary complex by binding to the serum response factor and the serum response 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 Elk1 phosphorylation 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 AM06147SU-N against truncated ELK1 recombinant protein (Lane 1) and K562 cell lysate (Lane 2).