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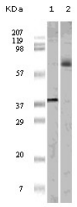
ELK1 Antibody [7E10D5 / 7E10E8]

Cat. No.: 32-149



ELK1 Antibody [7E10D5 / 7E10E8]

Specifications

HOST SPECIES:	Mouse
SPECIES REACTIVITY:	Human
IMMUNOGEN:	Ni-NTA purified truncated recombinant ELK1 expressed in E. Coli strain BL21 (DE3).
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	Western Blot:1:500 - 1:1,000 ELISA:Propose dilution 1:10,000. Determining optimal working dilutions by titration test.

Properties

CLONALITY:	Monoclonal
ISOTYPE:	IgG1
CONJUGATE:	Unconjugated
BUFFER:	Ascitic fluid containing 0.03% sodium azide.
STORAGE CONDITIONS:	ELK1 monoclonal antibody can be stored at -20˚C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Additional Info

OFFICIAL SYMBOL:	ELK1
ALTERNATE NAMES:	ETS domain-containing protein Elk-1
ACCESSION NO.:	P19419
PROTEIN GI NO.:	12643407
GENE ID:	2002
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

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.
REFERENCES:	1) Rao,V.N., et al. 1989.Science.244 (4900):66-70.
	2) Hsieh,Y.H., et al. 2006.Biochem. Biophys. Res. Commun. 339 (1): 217-225.
	3) Gille,H., Strahl,T. and Shaw,P.E.1995. Curr. Biol. 5 (10): 1191-1200.
	4) Gille,H., et al. 1995.EMBO J. 14 (5): 951-962.