

Product Name: Elk-1 (phospho Ser383) Rabbit Polyclonal Antibody
Catalog #: APRab04603

Summary

Production Name	Elk-1 (phospho Ser383) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ELK1
Alternative Names	ELK1; ETS domain-containing protein Elk-1
Gene ID	2002.0
SwissProt ID	P19419.The antiserum was produced against synthesized peptide derived from human Elk1 around the phosphorylation site of Ser383. AA range:351-400

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	

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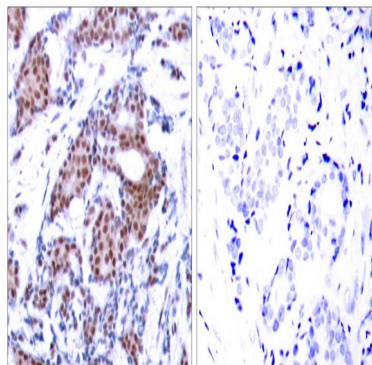
Background

This gene is a member of the Ets family of transcription factors and of the ternary complex factor (TCF) subfamily. Proteins of the TCF subfamily form a ternary complex by binding to the 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. This gene produces multiple isoforms by using alternative translational start codons and by alternative splicing. Related pseudogenes have been identified on chromosomes 7 and 14. [provided by RefSeq, Mar 2012],function:Stimulates transcription. Binds to purine-rich DNA sequences. Can form a ternary complex with the serum response factor and the ETS and SRF motifs of the fos serum response element.,PTM: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. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity.,PTM: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.,similarity:Belongs to the ETS family.,similarity:Contains 1 ETS DNA-binding domain.,subunit:Interacts in its sumoylated form with PIAS2/PIASX which enhances its transcriptional activator activity.,tissue specificity:Lung and testis.,

Research Area

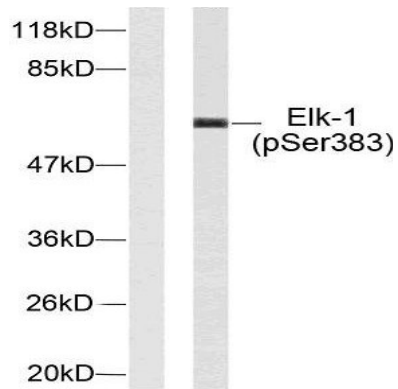
MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Focal adhesion;Insulin_Receptor;GnRH;Prion diseases;Endometrial cancer;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Elk1 (Phospho-Ser383) Antibody.
The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from HeLa cells treated with UV, using Elk1 (Phospho-Ser383) Antibody. The lane on the left is blocked with the phospho peptide.

Note

For research use only.