

## Rabbit Anti-ELK1/AF350 Conjugated antibody

SL1398R-AF350

<b>Product Name</b>	Anti-ELK1/AF350
<b>Chinese Name</b>	AF350 标记的细胞转录因子 ELK1 抗体
<b>Alias</b>	ELK 1; ELK1 member of ETS oncogene family; ELK1 protein; ELK2 member of ETS oncogene family; ETS domain containing protein Elk 1; ETS domain containing protein Elk1; ETS domain protein Elk1; Oncogene Elk1; ETS domain-containing protein Elk-1 isoform a; ETS domain-containing protein Elk-1; ETS-like gene 1; tyrosine kinase (ELK1) oncogene; ELK1_HUMAN.
<b>Research Area</b>	Tumour immunology transcriptional regulatory factor
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse,Rat(predicted:Cow,Horse) Flow-Cyt=1ug/Test,IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	47kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human ELK1
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail</b>	<b>background:</b> 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.

**Subunit:**

Interacts in its sumoylated form with PIAS2/PIASX which enhances its transcriptional activator activity. Interacts with MAD2L2; the interaction is direct and promotes phosphorylation by the kinases MAPK8 and/or MAPK9.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Lung and testis.

**Post-translational modifications:**

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.

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. Also phosphorylated on Ser-383 by MAPK8 and/or MAK9. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity. Phosphorylated and activated by CAMK4, MAPK11, MAPK12 and MAPK14.

**Similarity:**

Belongs to the ETS family.  
Contains 1 ETS DNA-binding domain.

**Database links:**

[Entrez Gene: 2002](#) Human

[Entrez Gene: 13712](#) Mouse

[Entrez Gene: 314436](#) Rat

[Omim: 311040](#) Human

[SwissProt: P19419](#) Human

[SwissProt: P41969](#) Mouse

[Unigene: 181128](#) Human

[Unigene: 405823](#) Mouse

[Unigene: 30029](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

transcriptional regulatory factor (Transcriptin Regulators)  
细胞转录因子 ELK1 是 ETS 致癌基因家族的一种。