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[Primary Antibody]

Rabbit Anti-ELK1 antibody

Catalog Number: SL1398R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ELK1
Immunogen:	KLH conjugated synthetic peptide derived from human ELK1: 301-428/428
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Cow, Horse)
Predicted MW.:	47kDa
Subcellular Location:	The nucleus
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

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	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 MAKP9. 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 transcriptional regulatory factor（Transcriptin Regulators） The cellular transcription factor ELK1 is a member of the ETS oncogene family.

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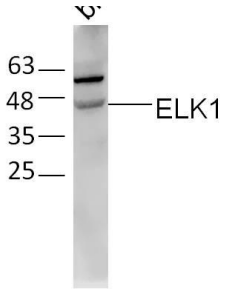
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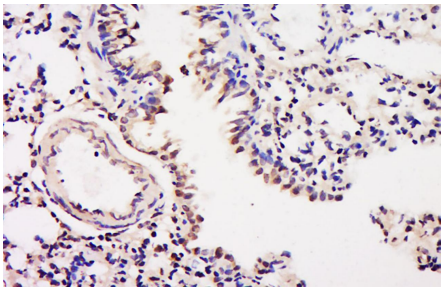
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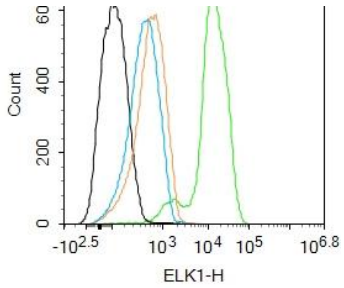
[VALIDATION IMAGES]



Sample:
Brain (Mouse) Lysate at 40 ug
Primary: Anti-ELK1 (SL1398R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47 kD
Observed band size: 47 kD



Tissue/cell: Rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ELK1 Polyclonal Antibody, Unconjugated(SL1398R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:Hela.
Primary Antibody (green line): Rabbit Anti-ELK1 antibody (SL1398R)
Dilution: 1ug/Test;
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature.Acquisition of 20,000 events was performed.

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