

---

**Product Name: KO-Validated ETS Transcription Factor ELK1 Recombinant Rabbit Monoclonal Antibody****Catalog #: KVAAb00109**

For research use only.

**Summary**

<b>Description</b>	KO&KD-Validated antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,FCM,ICC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Rabbit mAb
<b>Form</b>	Liquid
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
<b>Molecular Weight</b>	Calculated MW: 44.9kDa

**Antigen Information**

<b>Gene Name</b>	ELK1 ELK1; ETS Transcription Factor ELK1; ELK1, Member Of ETS Oncogene Family;
<b>Alternative Names</b>	ETS Domain-Containing Protein Elk-1; Tyrosine Kinase (ELK1) Oncogene; ELK1, ETS Transcription Factor; ETS-Like Gene 1
<b>Gene ID</b>	2002.0
<b>SwissProt ID</b>	P19419
<b>Immunogen</b>	A synthesized peptide derived from human ELK1

**Background**

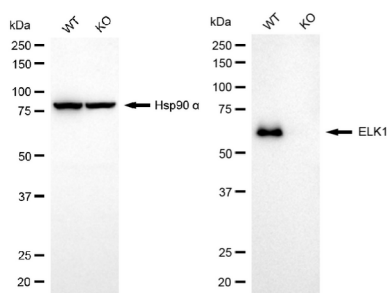
This gene is a member of the Ets family of transcription factors and of the ternary complex factor (TCF) subfamily. Proteins of

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]

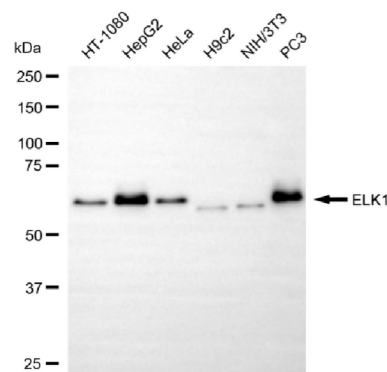
## Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Cancer

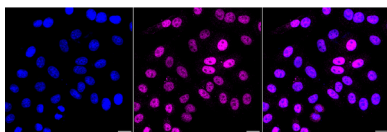
## Image Data



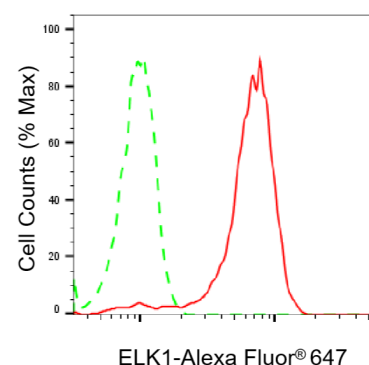
Western blotting analysis using ELK1 antibody (KVA00109). ELK1 expression in wild type (WT) and ELK1 knockout (KO) HSHC cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with ELK1 antibody (KVA00109, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ELK1 antibody (KVA00109). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ELK1 antibody (KVA00109, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ELK1 antibody (KVA00109, 1:1,000). Nuclei were stained blue with DAPI; ELK1 was stained magenta with Alexa Fluor<sup>®</sup> 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.



Flow cytometric analysis of ELK1 expression in HepG2 cells using ELK1 antibody (KVA00109, 1:2,000). Green, isotype control; red, ELK1.