


Product datasheet

Anti-ELK1 antibody ab125085

2 Images

Overview

<b>Product name</b>	Anti-ELK1 antibody
<b>Description</b>	Rabbit polyclonal to ELK1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Zebrafish, Rhesus monkey, Gorilla, Tilapia, Orangutan, Xenopus tropicalis, Medaka fish 
<b>Immunogen</b>	Synthetic peptide, corresponding to between amino acids 378-428 of Human ELK1 (NP_005220.2).
<b>Positive control</b>	293T and HeLa whole cell lysates
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate  pH 7 to 8
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab125085 is affinity purified using an epitope specific to ELK1 immobilized on solid support.
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab125085 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 45 kDa.
IP		Use at 2-10 µg/mg of lysate.

## Target

### 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.

### Tissue specificity

Lung and testis.

### Sequence similarities

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

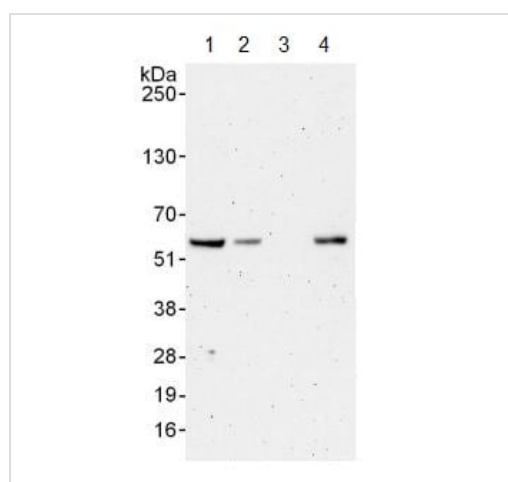
### Post-translational modifications

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. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity.

### Cellular localization

Nucleus.

## Images



Western blot - Anti-ELK1 antibody (ab125085)

**All lanes :** Anti-ELK1 antibody (ab125085) at 0.1 µg/ml

**Lane 1 :** 293T whole cell lysate at 50 µg

**Lane 2 :** 293T whole cell lysate at 15 µg

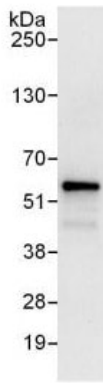
**Lane 3 :** Jurkat whole cell lysate at 50 µg

**Lane 4 :** HeLa whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 45 kDa

**Exposure time:** 3 minutes



Immunoprecipitation - Anti-ELK1 antibody  
(ab125085)

Detection of ELK1 by Western Blot of Immunoprecipitate.

ab125085 at 1  $\mu\text{g/ml}$  staining ELK1 in 293T whole cell lysate immunoprecipitated using ab125085 at 6 $\mu\text{g/mg}$  lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: Chemiluminescence with exposure time of 10 seconds.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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