

Product datasheet

Anti-ELK1 antibody ab65070

1 Image

Overview

Product name	Anti-ELK1 antibody
Description	Rabbit polyclonal to ELK1
Specificity	Detects endogenous levels of total Elk1 protein.
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat
Immunogen	Synthetic peptide derived from internal sequence of human Elk1
Positive control	Extracts from HeLa cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab65070** in the following tested applications.

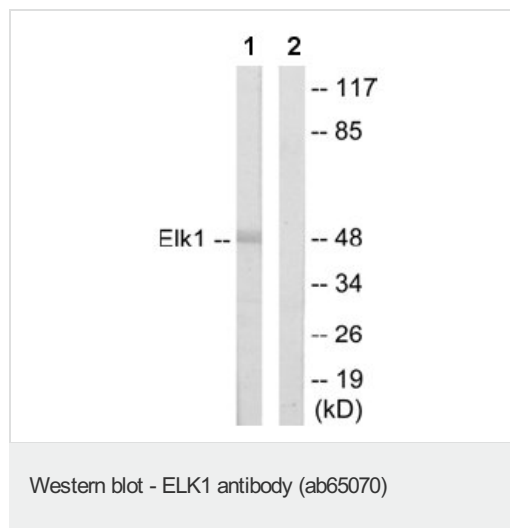
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/5000.
WB		1/500 - 1/1000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).

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



All lanes : Anti-ELK1 antibody (ab65070) at 1/500 dilution

Lane 1 : extracts from HeLa cells

Lane 2 : extracts from HeLa cells with immunizing peptide at 5 µg

Lysates/proteins at 5 µg per lane.

Predicted band size : 45 kDa

Observed band size : 45 kDa

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