abcam

Product datasheet

Anti-ELK1 (phospho S383) antibody ab34270

3 References 1 Image

Overview

Product name	Anti-ELK1 (phospho S383) antibody
Description	Rabbit polyclonal to ELK1 (phospho S383)
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Recombinant fragment
Immunogen	Synthetic peptide corresponding to Human ELK1 (phospho S383).
Positive control	Recombinant Elk1 protein.
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.50 Constituents: 0.01% BSA, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 0.238% HEPES
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab34270 in the following tested applications.

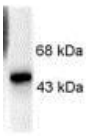
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 46 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



Western blot - Anti-ELK1 (phospho S383) antibody (ab34270)

Anti-ELK1 (phospho S383) antibody (ab34270) at 1/1000 dilution + recombinant Elk1 protein

Predicted band size: 45 kDa
Observed band size: 46 kDa

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