

Product datasheet

Anti-ELK1 antibody ab131465

2 References 3 Images

Overview

Product name	Anti-ELK1 antibody
Description	Rabbit polyclonal to ELK1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide conjugated to KLH, surrounding amino acids 387-391 (P-R-S-P-A) of Human ELK1 (NP_001107595.1).
Positive control	HeLa cells; 293 and HT29 cell extracts; Human breast carcinoma tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride Note: PBS without Mg ²⁺ and Ca ²⁺ .
Purity	Immunogen affinity purified
Purification notes	ab131465 was purified by affinity chromatography using epitope specific peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab131465** 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		1/500 - 1/1000. Detects a band of approximately 62 kDa (predicted molecular weight: 45 kDa).

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
ICC/IF		1/100 - 1/200.

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.

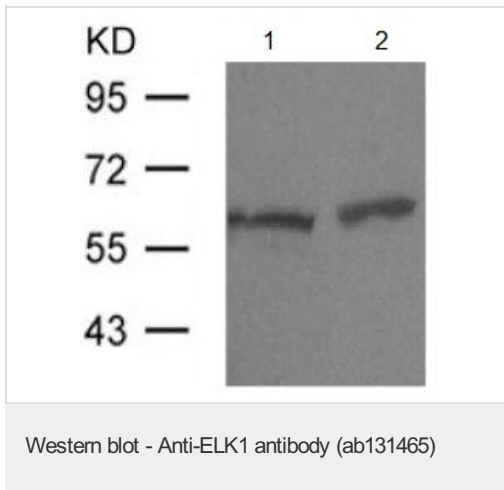
Post-translational modifications

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

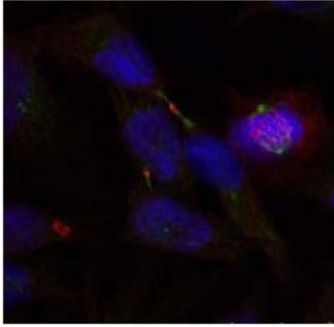


All lanes : Anti-ELK1 antibody (ab131465) at 1/500 dilution

Lane 1 : 293 cell extracts

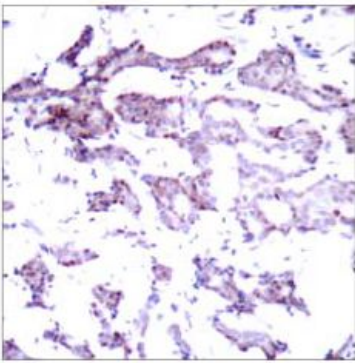
Lane 2 : HT29 cell extracts

Predicted band size: 45 kDa



Immunocytochemistry/ Immunofluorescence analysis of methanol-fixed HeLa cells labelling ELK1 with ab131465 at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-ELK1 antibody (ab131465)



Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labelling ELK1 with ab131465 at 1/50 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ELK1 antibody (ab131465)

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