

Datasheet for ABIN6140125
anti-ELF3 antibody (AA 1-280)

5 Images

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Overview

Quantity:	100 µL
Target:	ELF3
Binding Specificity:	AA 1-280
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ELF3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human ESE1/ESE1/ELF3 (NP_004424.3).
Sequence:	MAATCEISNI FSNYFSAMYS SEDSTLASVP PAATFGADDL VLTLNPQMS LEGTEKASWL GEQPQFWSKT QVLDWISYQV EKNKYDASAI DFSRCDMDGA TLCNCALEEL RLVFGPLGDQ LHAQLRDLTS SSSDELSWII ELLEKDGMAF QEALDPGPFD QGSPFAQELL DDGQQASPYH PGSCGAGAPS PGSSDVSTAG TGASRSSHSS DSGGSDVDLD PTDGKLFPSD GFRDCKKGGP KHGKRKRGRP RKLSKEYWDC LEGKSKHAP RGTHLWEFIR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

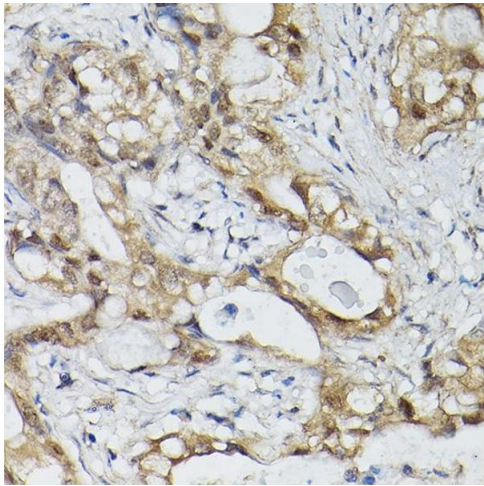
Target:	ELF3
Alternative Name:	ELF3 (ELF3 Products)
Background:	<p>Transcriptional activator that binds and transactivates ETS sequences containing the consensus nucleotide core sequence GGA[AT]. Acts synergistically with POU2F3 to transactivate the SPRR2A promoter and with RUNX1 to transactivate the ANGPT1 promoter. Also transactivates collagenase, CCL20, CLND7, FLG, KRT8, NOS2, PTGS2, SPRR2B, TGFBR2 and TGM3 promoters. Represses KRT4 promoter activity. Involved in mediating vascular inflammation. May play an important role in epithelial cell differentiation and tumorigenesis. May be a critical downstream effector of the ERBB2 signaling pathway. May be associated with mammary gland development and involution. Plays an important role in the regulation of transcription with TATA-less promoters in preimplantation embryos, which is essential in preimplantation development (By similarity.,ELF3,EPR-1,ERT,ESE-1,ESX,Epigenetics & Nuclear Signaling,Transcription Factors,ELF3</p>
Molecular Weight:	39 kDa/41 kDa
Gene ID:	1999
UniProt:	P78545

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

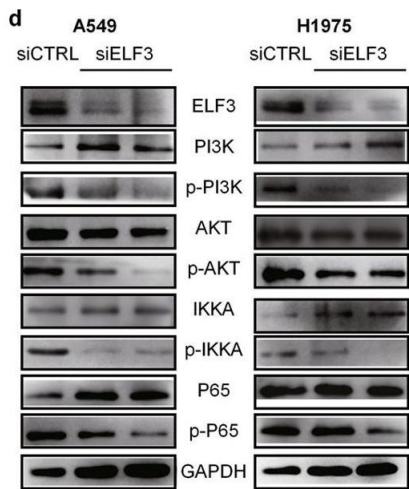
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Immunohistochemistry

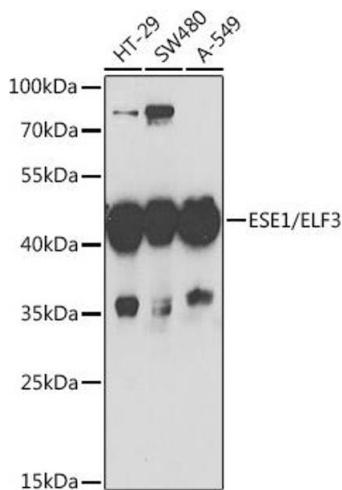
Image 1. Immunohistochemistry of paraffin-embedded human lung cancer using ESE1/ELF3 Rabbit pAb (ABIN6130347, ABIN6140125, ABIN6140127 and ABIN6221990) at dilution of 1:150 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. ELF3 can be induced by IL1B and promotes tumor growth through PI3K/AKT/NF-κB pathway. a Representative immunostaining showed that ELF3 expression in LUAD6 and LUAD7 is higher than that in the matched normal lung tissues. b Expression of ELF3 and selected NF-κB target genes in additional 12 LUAD tumor samples by qRT-PCR. The plot showed that the median expression of ELF3 and NF-κB targeting genes related to proliferation and anti-apoptosis are higher in the tumor tissues than their matched normal lung tissues. Colored dots refer to different individuals. c Expression of ELF3, NFKB1, and selected NF-κB target genes in NCI-H1975 (top) and A549 (bottom) cell lines by qRT-PCR after knockdown of ELF3 by siRNA (The controls were transfected with control siRNA (siCTRL)). In both cell lines, downregulation of ELF3 results in decreased expression of BCL2L1, CCND1, and PTGS2 which are responsible for anti-apoptosis, proliferation, and inflammation in tumor cells respectively. d Western blot showing the protein and phosphorylation levels of the key components in PI3K/AKT/NF-κB pathway in NCI-H1975 and A549 cells transfected with siELF3 or siCTRL. The phosphorylation levels of PI3K, AKT, IKKα, and P65 were decreased after ELF3 knockdown with unaltered total protein levels. e qRT-PCR showing the expression levels of

ELF3, NFKB1, and selected NF-κB target genes in NCI-H1975 (top) and A549 cells (bottom) treated with 10 ng/mL IL1B for 1h. The plots showed that the expression of ELF3 and NF-κB target genes such as BCL2L1, CCND1, PTGS2, and ICAM1 are increased in both cell lines after IL1B treatment. f qRT-PCR showing expression of ELF3, NFKB1, and the NF-κB target genes in NCI-H1975 (top) and A549 cells (bottom) which were transfected with siELF3 or siCTRL before being treated with 10 ng/mL IL1B for 1h. The plots showed that IL1B induced upregulation of NF-KB target genes are compromised by ELF3 knockdown in both cell lines. - figure provided by CiteAb. Source: PMID33144684



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using ESE1/ESE1/ELF3 antibody (ABIN6130347, ABIN6140125, ABIN6140127 and ABIN6221990) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6140125.