

Datasheet for ABIN184790
anti-ELF1 antibody (C-Term)[Go to Product page](#)

1 Validation

4 Images

Overview

Quantity:	100 µg
Target:	ELF1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This ELF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	ELF1
Immunogen:	Peptide with sequence C-AMKQNELLEPNF, from the C Terminus of the protein sequence according to NP_758961.1, NP_001138825.1.
Sequence:	AMKQNELLEP NSF
Isotype:	IgG
Specificity:	This antibody is expected to recognise both reported isoforms.
Cross-Reactivity:	Human, Mouse
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

Target Details

Target:	ELF1
Alternative Name:	ELF1 (ELF1 Products)
Background:	ELF1, E74-like factor 1 (ets domain transcription factor), OTTHUMP00000018310, ets-related transcription factor Elf-1
Gene ID:	1997, 13709
NCBI Accession:	NP_758961 , NP_001138825

Application Details

Application Notes:	Immunohistochemistry: Paraffin embedded Human Thymus. Recommended concentration: 2.5 µg/mL. Western Blot: Approx 65 kDa band observed in Human Lymph Node and Tonsil and in Mouse Thymus lysates (calculated MW of 64.9 kDa according to Human NP_001138825.1 and 62.3 kDa according to Mouse NP_001273341.1). Recommended concentration: 0.1-0.3 µg/mL. Appro Peptide ELISA: antibody detection limit dilution 1:64000.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.



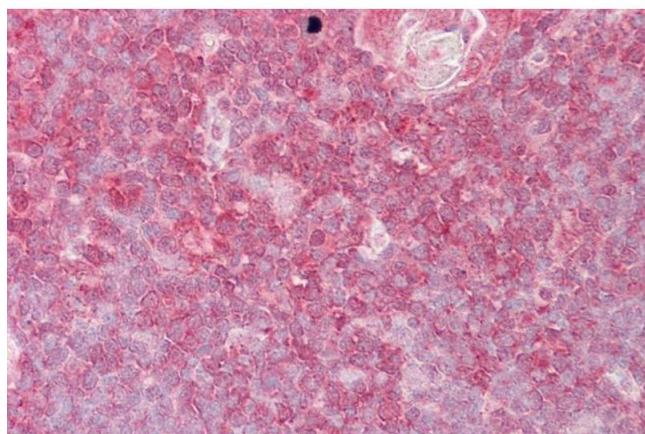
Western Blotting

Image 1. ABIN184790 (0.1µg/ml) staining of Jurkat cell lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blotting

Image 2. ABIN184790 staining (0.3µg/ml) of Human Tonsil lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry

Image 3. ABIN184790 (2.5µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN184790.



Successfully validated (Western Blotting (WB))

by [Dittmann Lab](#), Microbiology Department, NYU Langone Health, NYU School of Medicine

Report Number: 103876

Date: Oct 28 2019

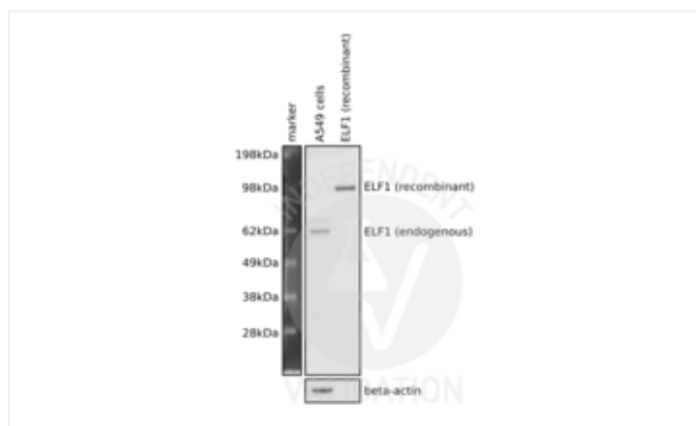
Target:	ELF1
Lot Number:	C2P2
Method validated:	Western Blotting (WB)
Positive Control:	A549 (endogenous ELF1), ELF1 recombinant protein
Notes:	Passed. ABIN184790 specifically recognizes endogenous ELF1 in A549 cell lysates and recombinant human ELF1.
Primary Antibody:	ABIN184790
Secondary Antibody:	rabbit anti-goat HRP-conjugated antibody (Invitrogen, 31402)
Protocol:	<ul style="list-style-type: none"> • Grow A549 cells (ATCC, CCL-185) in DMEM medium (Corning, 10-013-CV) supplemented with 10% FBS (Atlanta biologicals, S11150) and Penicillin-Streptomycin (Corning, 30-002-CI), at 37°C and 5% CO₂ to 3x10⁴ cells/cm² in 2ml on a 6 well plate (Costar, 3516). • Wash cells once with 1x PBS treat with trypsin (Corning, 25-053-CI). • Take cells up in growth medium. • Wash cells once with 1x PBS. • Resuspend approximately 2.05x10⁵ cells/well in 50-100µl 1x LDS sample buffer (Life Technologies, B0007). As positive control, take 20µg recombinant ELF1 (Abnova, H00001997-P01) in 1x LDS sample buffer. • Denature samples for 3min at 95°C and subsequently keep them on ice. • Separate samples on a Bolt 4-12% Bis-Tris Plus Gel (Invitrogen, NW04122) in an electrophoresis chamber (Mini Gel Tank, Invitrogen, A25977) for 30min at 80V and then for 60min at 120V. • Transfer proteins onto nitrocellulose membrane (Invitrogen, IB23002) using an iBlot 2 Gel Transfer Device (Invitrogen). • Block the membrane with TBS containing 0.05% Tween (TBST) containing 5% skim milk for 1h at RT. • Incubation with primary <ul style="list-style-type: none"> ◦ goat anti-ELF1 antibody (antibodies-online, ABIN184790, C2P2) diluted 1:2500 in TBST containing 0.5% skim milk ON at 4°C. ◦ loading control mouse anti-beta actin antibody (Invitrogen, MA5-15739) diluted 1:5000 in TBST containing 0.5% skim milk ON at 4°C.

- Wash membrane 3x for 10min with TBST.
- Incubation with secondary
 - rabbit anti-goat HRP-conjugated antibody (Invitrogen, 31402) diluted 1:20000 in TBST containing 0.5% skim milk for 1h at RT.
 - goat anti-mouse HRP-conjugated antibody (Invitrogen, G21040) diluted 1:10000 in TBST containing 0.5% skim milk for 1h at RT.
- Wash membrane 3x for 10min with TBST.
- Reveal protein bands using SuperSignal West Dura Extended Duration Substrate (ThermoFisher Scientific, 34075) and a ChemiDoc MP Imaging System (Bio-Rad).

Experimental Notes:

- ABIN184790 reveals a protein with an apparent molecular weight of approximately 62kDa. The expected molecular weight for endogenous human ELF1 is approximately 67kDa. The antibody also reveals a recombinant GST-tagged protein at the expected molecular weight (theoretical MW 93.9kDa).
- Other ELF1-antibody dilutions were tested, but a dilution of 1:2500 was found optimal in terms of minimal background and strength of signal.

Image for Validation report #103876



Validation image no. 1 for anti-E74-Like Factor 1 (Ets Domain Transcription Factor) (ELF1) (C-Term) antibody (ABIN184790)

Detection of human ELF1 by western blot using ABIN184790 diluted 1:2500. Samples: whole cell lysate from A549 cells and human ELF1 recombinant protein. Expected molecular weight: approximately 65kDa.