

Datasheet for ABIN6261511
anti-ELF1 antibody (C-Term)[Go to Product page](#)

1 Validation

3 Images

Overview

Quantity:	100 µL
Target:	ELF1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ELF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human ELF1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	ELF1 Antibody detects endogenous levels of total ELF1.
Predicted Reactivity:	Horse
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	ELF1
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Target Details

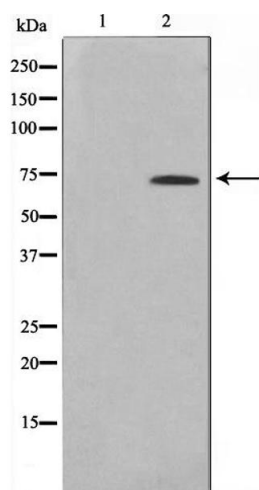
Alternative Name:	ELF1 (ELF1 Products)
Background:	<p>Description: Transcription factor that activates the LYN and BLK promoters. Appears to be required for the T-cell-receptor-mediated trans activation of HIV-2 gene expression. Binds specifically to two purine-rich motifs in the HIV-2 enhancer.</p> <p>Gene: ELF1</p>
Molecular Weight:	67kDa
Gene ID:	1997
UniProt:	P32519

Application Details

Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

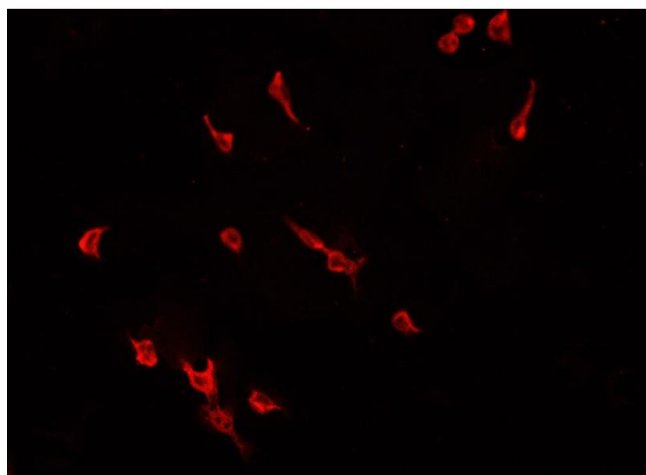
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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. Stable for 12 months from date of receipt.
Expiry Date:	12 months



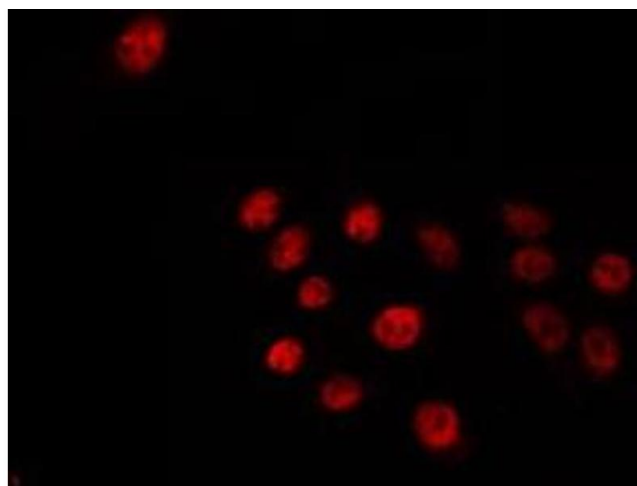
Western Blotting

Image 1. Western blot analysis on 293 cell lysate using ELF1 Antibody



Immunofluorescence (fixed cells)

Image 2. ABIN6266812 staining CACO-2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody



Immunofluorescence (fixed cells)

Image 3. ABIN6266812 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody



Successfully validated (Western Blotting (WB))

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

Report Number: 104221

Date: Oct 28 2019

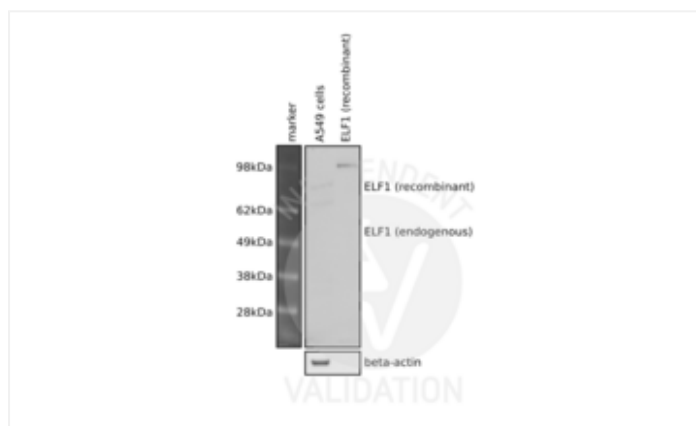
Target:	ELF1
Lot Number:	4318850
Method validated:	Western Blotting (WB)
Positive Control:	A549 (endogenous ELF1), ELF1 recombinant protein
Notes:	Passed. ABIN6261511 recognizes recombinant and endogenous human ELF1. The antibody does also reveal an additional larger MW protein band in A549 cell lysates.
Primary Antibody:	ABIN6261511
Secondary Antibody:	goat anti-rabbit HRP-conjugated antibody (Invitrogen, G21234)
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"> ◦ rabbit anti-ELF1 antibody (antibodies-online, ABIN6261511, 4318850) diluted 1:1000 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
 - goat anti-rabbit HRP-conjugated antibody (Invitrogen, G21234) diluted 1:10000 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:

- ABIN6261511 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 #104221



Validation image no. 1 for anti-E74-Like Factor 1 (Ets Domain Transcription Factor) (ELF1) (C-Term) antibody (ABIN6261511)

Detection of human ELF1 by western blot using ABIN6261511 diluted 1:1000. Samples: whole cell lysate from A549 cells and human ELF1 recombinant protein. Expected molecular weight: approximately 67kDa.