

## Product datasheet

# Anti-NELFe antibody [EPR11600] ab170104

Recombinant **RabMAb**

[3 References](#) [7 Images](#)

### Overview

<b>Product name</b>	Anti-NELFe antibody [EPR11600]
<b>Description</b>	Rabbit monoclonal [EPR11600] to NELFe
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IP, Flow Cyt <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human NELFe.
<b>Positive control</b>	WB: HeLa, T47-D, HepG2 or 293T lysate, HepG2 cells. Mouse and Rat brain lysates. ICC/IF: HeLa cells. FC: HeLa cells. IP: HeLa cells.
<b>General notes</b>	<p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> <p>This product is a <a href="#">recombinant rabbit monoclonal antibody</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR11600
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab170104** 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 - 1/5000. Predicted molecular weight: 44 kDa.
ICC/IF		1/500. <b>For unpurified use at 1/100 - 1/250.</b>
IP		1/10 - 1/100.
Flow Cyt		1/300.
<b>Application notes</b>		Is unsuitable for IHC-P.

## Target

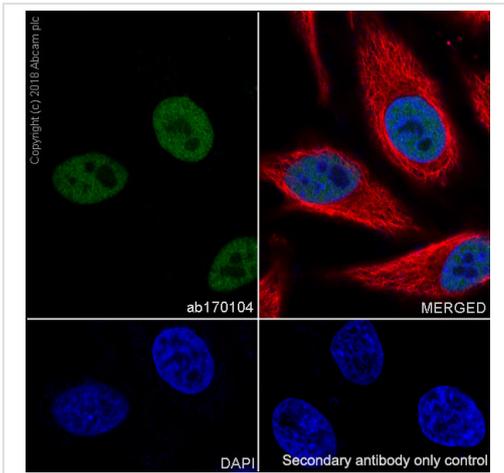
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<b>Function</b>	Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II. The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex.
<b>Tissue specificity</b>	Widely expressed. Expressed in heart, brain, lung, placenta, liver, skeletal muscle, kidney and pancreas.
<b>Sequence similarities</b>	Belongs to the RRM NELF-E family. Contains 1 RRM (RNA recognition motif) domain.
<b>Domain</b>	The RRM domain interacts with RNA, and is essential for NELF complex function. It is however not required for the NELF complex formation.
<b>Post-translational modifications</b>	Sumoylated.
<b>Cellular localization</b>	Nucleus.

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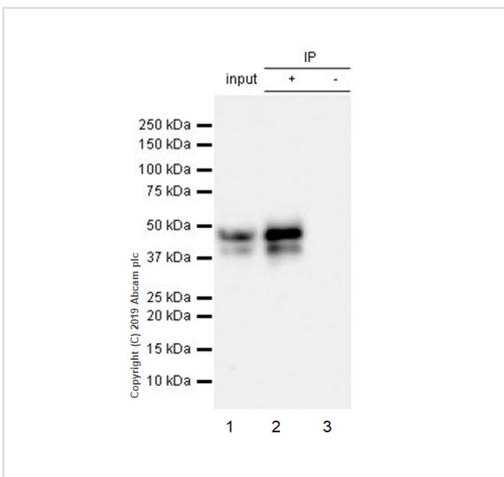
## Images

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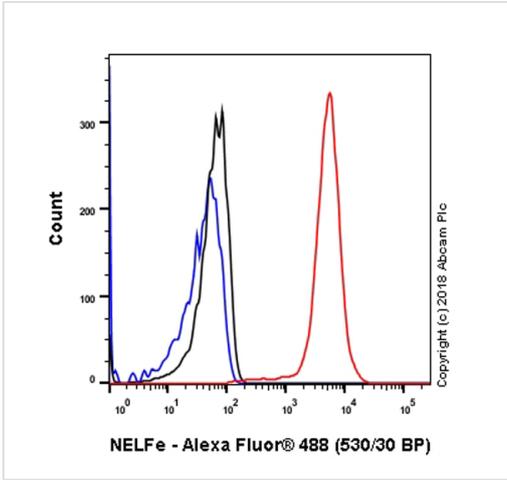
Immunocytochemistry/ Immunofluorescence - Anti-NELFe antibody [EPR11600] (ab170104)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling NELFe with Purified ab170104 at 1:500 dilution (0.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-NELFe antibody [EPR11600] (ab170104)

ab170104 (purified) at 1:20 dilution (2µg) immunoprecipitating NELFe in HeLa whole cell lysate.  
 Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg  
 Lane 2 (+): ab170104 & HeLa whole cell lysate  
 Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab170104 in HeLa whole cell lysate  
 For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1:1000 dilution.  
 Blocking and diluting buffer: 5% NFDm/TBST.



Flow Cytometry - Anti-NELFe antibody [EPR11600] (ab170104)

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling NELFe with Purified ab170104 at 1:300 dilution (1 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-NELFe antibody [EPR11600] (ab170104)

**All lanes :** Anti-NELFe antibody [EPR11600] (ab170104) at 1/5000 dilution (Purified)

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

**Lane 2 :** Mouse brain lysates

**Lane 3 :** Rat brain lysates

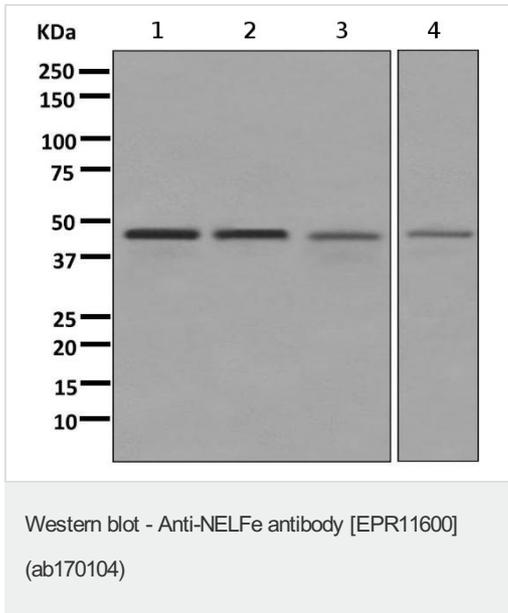
Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 44 kDa

**Observed band size:** 44 kDa



**All lanes :** Anti-NELFe antibody [EPR11600] (ab170104) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** T47-D cell lysate

**Lane 3 :** HepG2 cell lysate

**Lane 4 :** 293T cell lysate

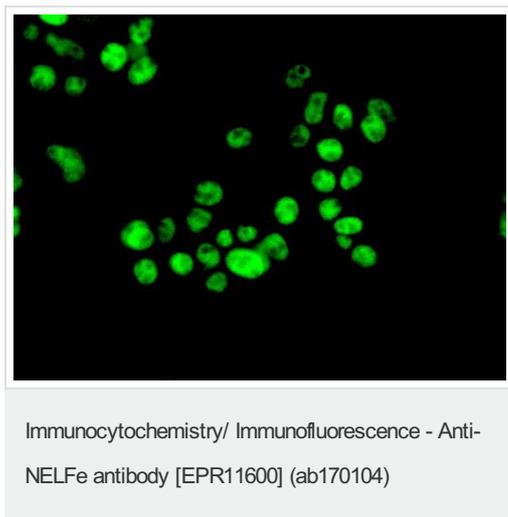
Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

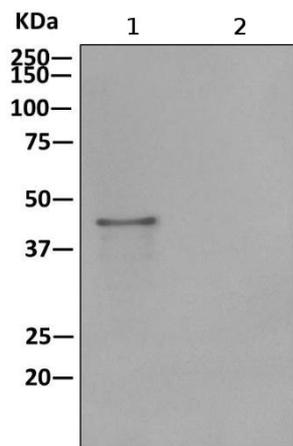
**Predicted band size:** 44 kDa

**This image was generated using the unpurified version of the product.**



Immunofluorescence analysis of HepG2 cells labeling NELFe with ab170104 at a 1/100 dilution.

**This image was generated using the unpurified version of the product.**



Immunoprecipitation - Anti-NELFe antibody  
[EPR11600] (ab170104)

Western blot analysis on immunoprecipitation pellet from HeLa cell lysate (lane 1) or 1X PBS (negative control) (lane 2) using ab170104, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

**This image was generated using the unpurified version of the product.**

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