abcam

Product datasheet

Anti-NELFe antibody [EPR11600] ab170104

Recombinant   RabMAb

★★★★★ **1 Abreviews**   **12 References**   8 Images

Overview

Product name	Anti-NELFe antibody [EPR11600]
Description	Rabbit monoclonal [EPR11600] to NELFe
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human NELFe.
Positive control	WB: HeLa, T47-D, HepG2 or 293T lysate, HepG2 cells. Mouse and Rat brain lysates. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. IP: HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

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

Applications

The Abpromise guarantee　　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.
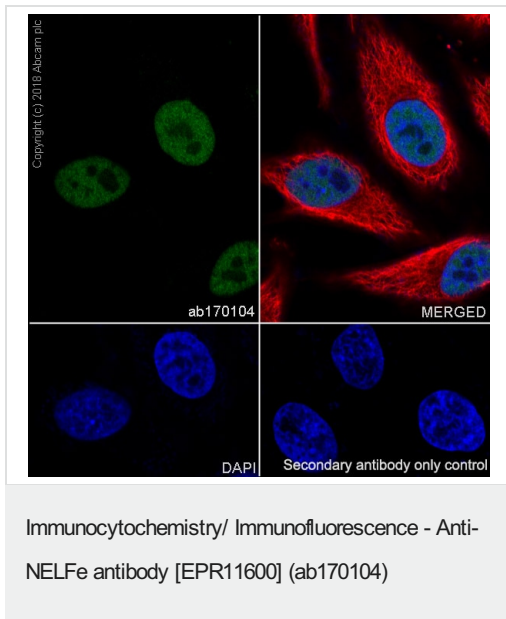
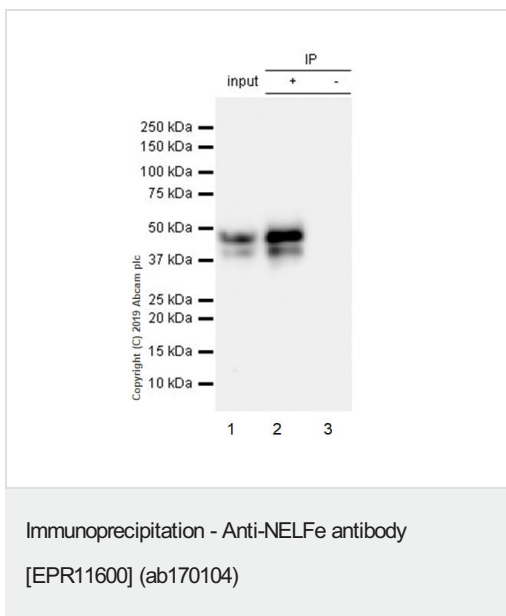| Application	Abreviews	Notes
Flow Cyt (Intra)		1/300.
WB	★★★★★ (1)	1/1000 - 1/5000. Predicted molecular weight: 44 kDa.
ICC/IF		1/500. **For unpurified use at 1/100 - 1/250.**
IP		1/10 - 1/100.

Application notes　　Is unsuitable for IHC-P.

Target

Function　　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.

Tissue specificity　　Widely expressed. Expressed in heart, brain, lung, placenta, liver, skeletal muscle, kidney and pancreas.

Sequence similarities　　Belongs to the RRM NELF-E family.
Contains 1 RRM (RNA recognition motif) domain.

Domain　　The RRM domain interacts with RNA, and is essential for NELF complex function. It is however not required for the NELF complex formation.

Post-translational modifications　　Sumoylated.

Cellular localization　　Nucleus.

Images

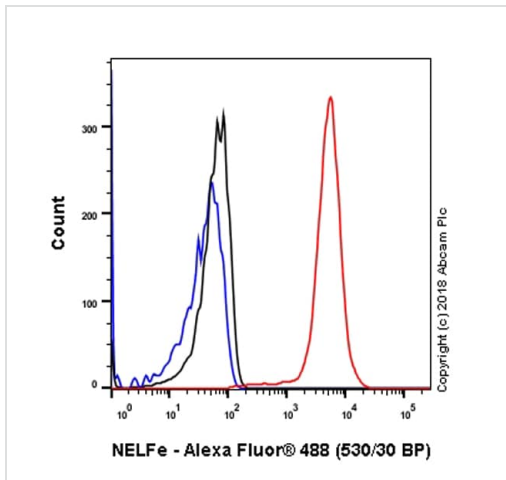Immunocytochemistry/ Immunofluorescence - Anti-NELFe antibody [EPR11600] (ab170104)

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.

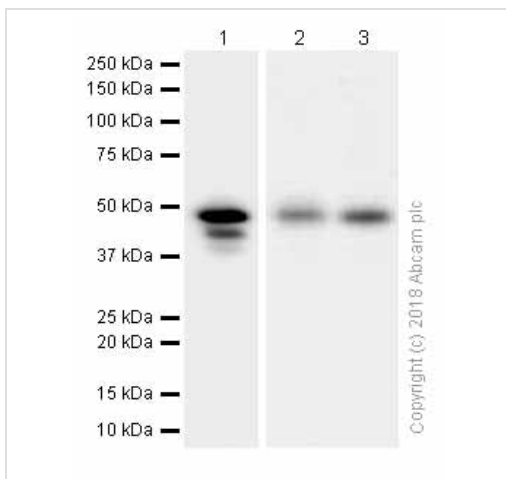Immunoprecipitation - Anti-NELFe antibody [EPR11600] (ab170104)

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

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling NELFe with Purified ab170104 at 1/300 dilution (1µg/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

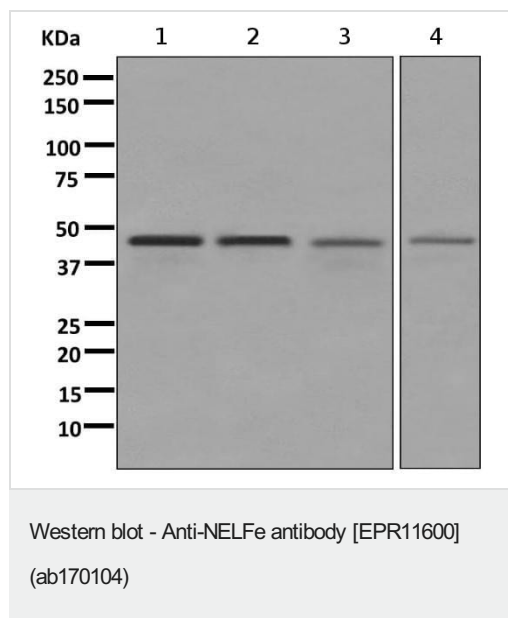**Lane 3 :** Rat brain lysates

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

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

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

Lane 1 : HeLa cell lysate

Lane 2 : T47-D cell lysate

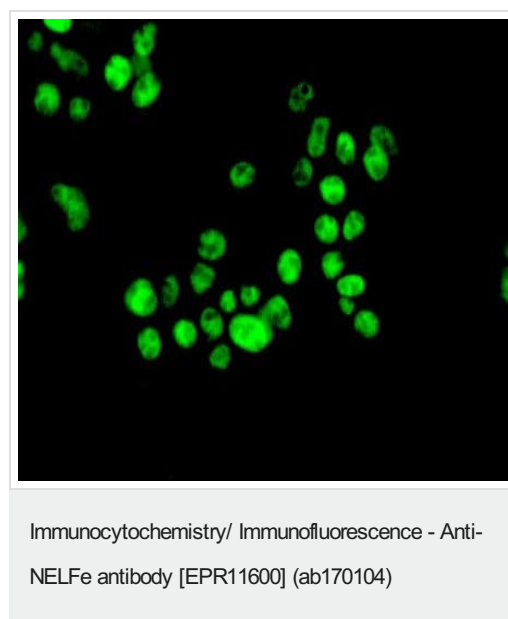**Lane 3 :** HepG2 cell lysate

Lane 4 : 293T cell lysate

Lysates/proteins at 10 μg per lane.

Secondary

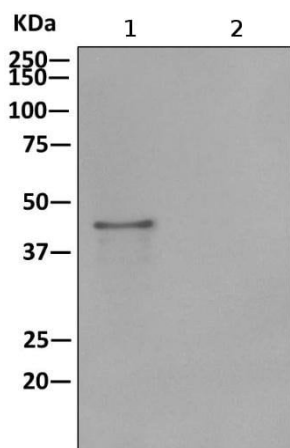**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 44 kDa

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

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

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.

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.

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

Anti-NELFe antibody [EPR11600] (ab170104)

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