abcam

Product datasheet

Anti-NELFe antibody [EPR11600] - BSA and Azide free ab240158

Recombinant RabMAb

6 Images

Overview

Product name	Anti-NELFe antibody [EPR11600] - BSA and Azide free
Description	Rabbit monoclonal [EPR11600] to NELFe - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, ICC/IF, WB **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human NELFe.
Positive control	ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. IP: HeLa cells.
General notes	ab240158 is the carrier-free version of **ab170104**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11600
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240158 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

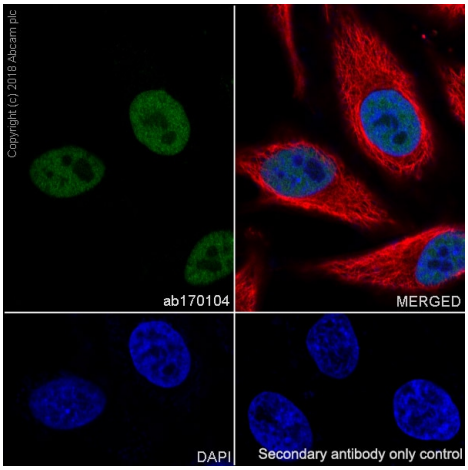
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 44 kDa.

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.

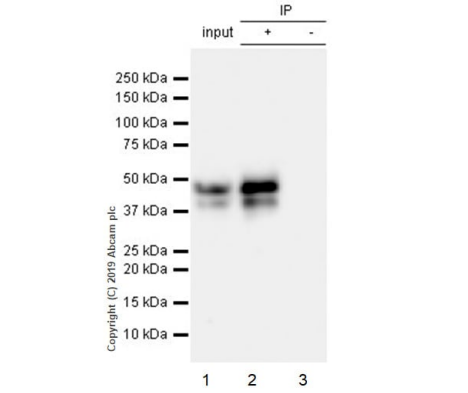
Images



Immunocytochemistry/ Immunofluorescence - Anti-NELFe antibody [EPR11600] - BSA and Azide free (ab240158)

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.

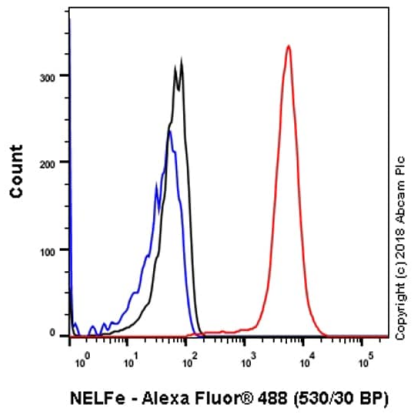
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170104**).



Immunoprecipitation - Anti-NELFe antibody [EPR11600] - BSA and Azide free (ab240158)

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.

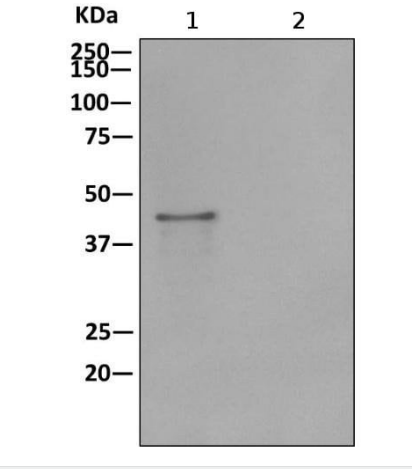
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170104**).



Flow Cytometry (Intracellular) - Anti-NELFe antibody [EPR11600] - BSA and Azide free (ab240158)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170104**).

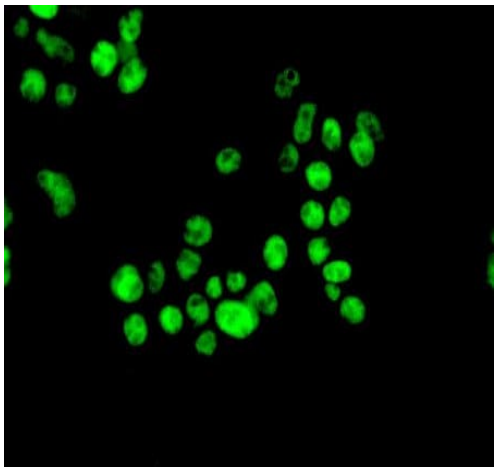


Immunoprecipitation - Anti-NELFe antibody [EPR11600] - BSA and Azide free (ab240158)

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 data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170104**).

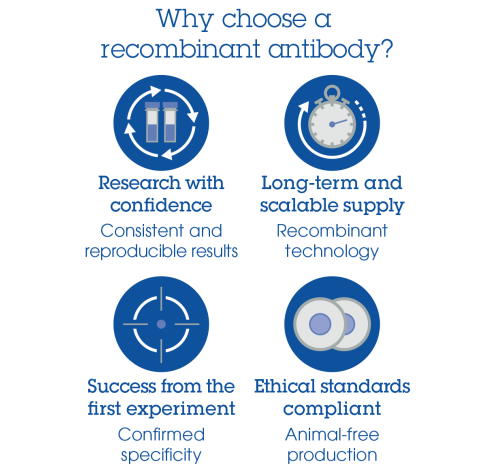
This image was generated using the unpurified version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-NELFe antibody [EPR11600] - BSA and Azide free (ab240158)

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.



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