abcam

ab251277

Anti-NUP155 antibody [EPR17111] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR17111

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information NUP155

Function	Essential component of nuclear pore complex. Could be essessential for embryogenesis. Nucleoporins may be involved both in binding and translocating proteins during nucleocytoplasmic transport.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab251277 is the carrier-free version of ab199528.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility
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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	NUP155 is a nucleoporin a component of the nuclear pore complex that regulates nucleocytoplasmic transport. Its mass is approximately 155 kDa. The protein is prominently expressed in tissues with high cellular activity like the liver and pancreas as it assists in managing the transport needs of these metabolically active areas. NUP155 facilitates the exchange of molecules between the nucleus and the cytoplasm playing a significant role in cellular communication.
Biological function summary	This nucleoporin is essential in maintaining the structure and function of the nuclear envelope. NUP155 is part of the extensive nuclear pore complex which consists of multiple proteins working together to manage the transport of RNA and proteins across the nuclear envelope. NUP155 acts as a scaffold that helps maintain the integrity of this complex ensuring the proper exchange between nuclear and cytoplasmic compartments vital for gene regulation and expression.
Pathways	NUP155 participates in pathways like nucleocytoplasmic transport and cell cycle regulation. It interacts with other nuclear pore proteins such as NUP93 and NUP205 to coordinate the import and export of macromolecules. In the cell cycle pathway NUP155 ensures proper mitotic progression by managing the transport of regulatory proteins necessary for cell division.
Associated diseases and disorders	Alterations in NUP155 function have associations with cardiac arrhythmias and certain types of cancers. In arrhythmias NUP155 mutations disrupt cellular signaling processes affecting cardiac rhythm regulation. Linked with tumorigenesis abnormal NUP155 expression can alter nucleocytoplasmic transport contributing to cancer development. Its interactions with other proteins like NUP93 may offer insights into therapeutic targets for these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

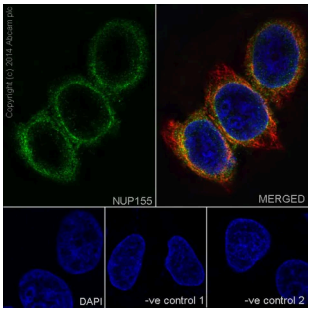
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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5 product images

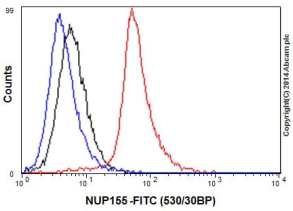


Immunocytochemistry/ Immunofluorescence - Anti-NUP155 antibody [EPR17111] - BSA and Azide free (ab251277)

NUP155 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-NUP155 antibody

This data was developed using ab199528, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling NUP155 with ab199528 at 1/2000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Nucleus membrane and cytoplasm staining on HeLa cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

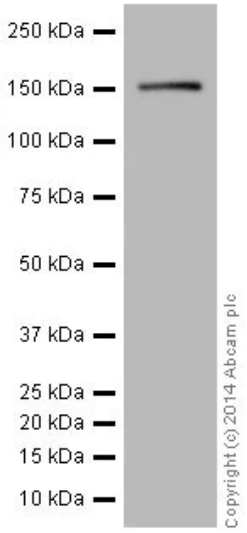
The negative controls are as follows:-
-ve control 1: ab199528 at 1/2000 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Flow Cytometry (Intracellular) - Anti-NUP155 antibody [EPR17111] - BSA and Azide free (ab251277)

NUP155 Flow Cytometry (Intracellular) staining using rabbit Anti-NUP155 antibody

This data was developed using ab199528, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling NUP155 with ab199528 at 1/250 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



Western blot - Anti-NUP155 antibody [EPR17111] - BSA and Azide free (ab251277)

NUP155 Western blot staining of HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate using rabbit Anti-NUP155 antibody

This data was developed using ab199528, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-NUP155 antibody [EPR17111] (ab199528) at 1/2000 dilution

All lanes:
HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate at 20 µg

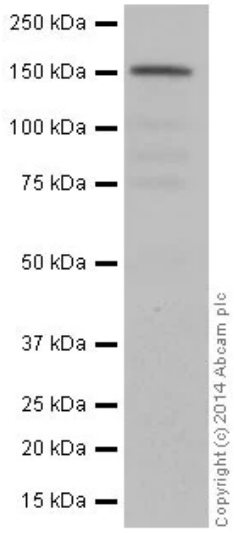
Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 155 kDa

Observed band size: 155 kDa

Exposure time: 10s



Western blot - Anti-NUP155 antibody [EPR17111] - BSA and Azide free (ab251277)

NUP155 Western blot staining of Human fetal liver lysate using rabbit Anti-NUP155 antibody

This data was developed using ab199528, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-NUP155 antibody [EPR17111] (ab199528) at 1/1000 dilution

All lanes:
Human fetal liver lysate at 10 µg

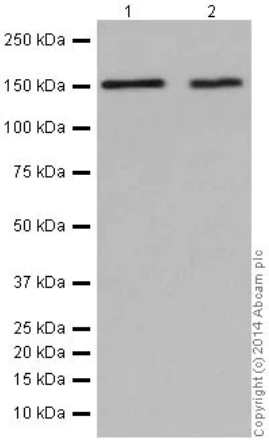
Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 155 kDa

Observed band size: 155 kDa

Exposure time: 3min



Western blot - Anti-NUP155 antibody [EPR17111] - BSA and Azide free (ab251277)

This data was developed using ab199528, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-NUP155 antibody [EPR17111] (ab199528) at 1/5000 dilution

Lane 1:
Jurkat (Human T cell leukemia cells from peripheral blood) cell lysate at 10 µg

Lane 2:
HEK-293 (Human embryonic kidney) cell lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 155 kDa

Observed band size: 155 kDa

Exposure time: 30s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.