abcam

ab249691

Anti-NUDCD2 antibody [EPR11558] - 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	EPR11558
Purification technique	Affinity purification Protein A

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information NUDCD2

Function	May regulate the LIS1/dynein pathway by stabilizing LIS1 with Hsp90 chaperone.

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

ab249691 is the carrier-free version of ab171979.

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	NUDCD2 also known as NudC Domain Containing 2 is a protein that plays a role in cellular processes like protein transport. This protein weighs approximately 45 kDa. NUDCD2 locates primarily in the cytoplasm where it interacts with microtubules. The expression profile of NUDCD2 shows its presence in multiple tissues including liver lungs and lymph nodes highlighting its significance in these areas.
Biological function summary	The actions of NUDCD2 involve interactions with the mitotic spindle suggesting a role in cell division. NUDCD2 associates with elements of the dynein-dynactin complex which implies participation in intracellular transport mechanisms. This complex facilitates processes essential for efficient mitotic spindle function an important aspect of cell division and proper chromosome segregation.

Pathways	NUDCD2 is involved in the regulation of the microtubule cytoskeleton. It functions within pathways like the cell cycle regulation pathway in particular during mitosis. NUDCD2 is related to proteins such as dynein which contribute to the stabilization of microtubules and proper mitotic spindle formation. This connection indicates that NUDCD2 impacts processes that control cell proliferation and genomic stability.
Associated diseases and disorders	NUDCD2 has connections to cancer where disruptions in its function could lead to abnormal cell division and tumor formation. Impaired regulation of proteins like NUDCD2 might result in missegregation of chromosomes promoting oncogenesis. Additionally NUDCD2 implications in neurological disorders exist since defects in microtubule-related processes can lead to neurodevelopmental issues linking it with proteins involved in neuronal function and stability.

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

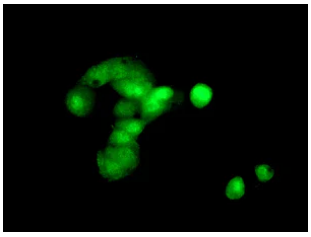
We do not recommend this combination. It is not covered by our product promise.

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.

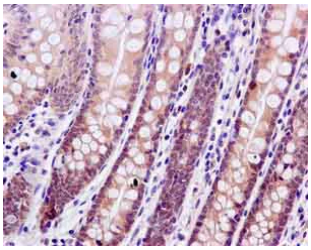
6 product images



Immunocytochemistry/ Immunofluorescence - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

NUDCD2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-NUDCD2 antibody

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of HepG2 cells labeling NUDCD2 with ab171979 at 1/100 dilution.

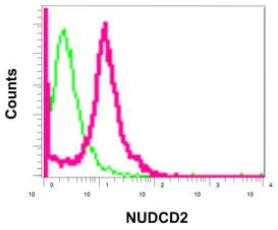


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

NUDCD2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-NUDCD2 antibody

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling NUDCD2 with ab171979 at 1/50 dilution.

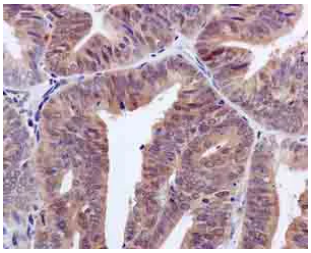
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

NUDCD2 Flow Cytometry (Intracellular) staining using rabbit Anti-NUDCD2 antibody

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized 293T cells labeling NUDCD2 with ab171979 at 1/10 dilution (red) or a Rabbit IgG (negative) (green).

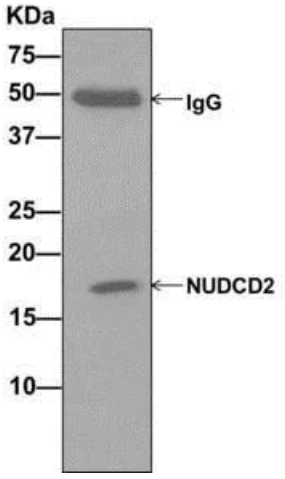


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

NUDCD2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-NUDCD2 antibody

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human endometrial adenocarcinoma tissue labeling NUDCD2 with ab171979 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

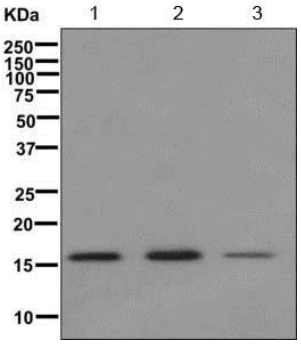


Immunoprecipitation - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
Western blot analysis on immunoprecipitation pellet from 293T cell lysate labeling NUDCD2 with ab171979 at 1/10 dilution.

All lanes:
Immunoprecipitation - Anti-NUDCD2 antibody [EPR11558] (ab171979)

Predicted band size: 18 kDa



Western blot - Anti-NUDCD2 antibody [EPR11558] - BSA and Azide free (ab249691)

NUDCD2 Western blot staining using rabbit Anti-NUDCD2 antibody

This data was developed using ab171979, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-NUDCD2 antibody [EPR11558] (ab171979) at 1/1000 dilution

Lane 1:
K562 cell lysate at 10 µg

Lane 2:
293T cell lysate at 10 µg

Lane 3:
HepG2 cell lysate at 10 µg

Predicted band size: 18 kDa

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