abcam

ab249831

Anti-NBL1 antibody [EPR12397] - 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	EPR12397
Purification technique	Affinity purification
Concentration	1.02 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information NBL1

Function	Possible candidate as a tumor suppressor gene of neuroblastoma. May play an important role in preventing cells from entering the final stage (G1/S) of the transformation process.

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

ab249831 is the carrier-free version of ab174843.

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	NBL1 also known as DAN domain family member 1 is a protein with a molecular weight of approximately 20 kDa. It is found in various tissues but shows higher expression levels in the nervous tissue and skeletal muscle. Mechanically NBL1 acts as a modulator in cell signaling pathways by binding to specific growth factors such as BMPs (Bone Morphogenetic Proteins) inhibiting their functions and affecting cell differentiation and growth.
Biological function summary	NBL1 plays an inhibitory role in bone morphogenesis by interacting with BMPs which are part of the TGF-beta superfamily. NBL1 can form complexes with these growth factors thereby regulating processes related to bone and cartilage development. This protein is essential for maintaining cellular processes involved in tissue homeostasis and suppressing unchecked cellular proliferation.
Pathways	NBL1 involves itself in the BMP signaling pathway where it directly impacts the regulation of bone and cartilage development. It is associated with other proteins like Noggin and Chordin both of which also modulate BMP activity highlighting its importance in balancing cell growth and differentiation signals. The involvement of NBL1 in the TGF-beta/BMP pathway is critical for embryonic development and the regulation of body patterning.
Associated diseases and disorders	NBL1 has been linked to conditions such as osteoarthritis and certain cancer types. Its inhibitory effect on BMPs associates it with osteoarthritis where altered BMP signaling contributes to cartilage degradation. In cancer where BMP activity can be dysregulated NBL1's role in inhibiting BMP pathways places it in connection to tumor suppressors like SMAD proteins emphasizing its potential relevance in tumorigenesis and metastasis.

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

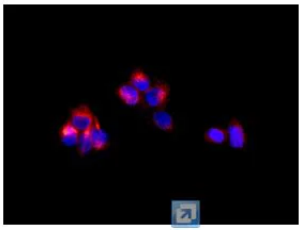
We do not recommend this combination. It is not covered by our product promise.

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.

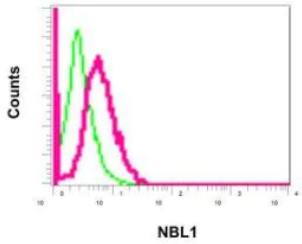
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-NBL1 antibody [EPR12397] - BSA and Azide free (ab249831)

NBL1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-NBL1 antibody

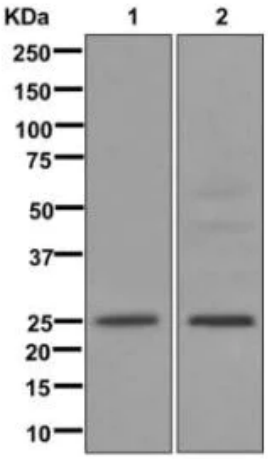
This data was developed using ab174843, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of A431 cells labeling NBL1 with ab174843 at 1/100 dilution (red). DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-NBL1 antibody [EPR12397] - BSA and Azide free (ab249831)

NBL1 Flow Cytometry (Intracellular) staining using rabbit Anti-NBL1 antibody

This data was developed using ab174843, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized A431 cells labeling NBL1 with ab174843 at 1/10 dilution (red), or negative control rabbit IgG (green).



Western blot - Anti-NBL1 antibody [EPR12397] - BSA and Azide free (ab249831)

This data was developed using ab174843, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-NBL1 antibody [EPR12397] (ab174843) at 1/1000 dilution

Lane 1:
A431 cell lysate at 10 µg

Lane 2:
Human prostate lysate at 10 µg

Predicted band size: 149 kDa, 19 kDa

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