abcam

ab174843

Anti-NBL1 antibody [EPR12397]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR12397
Purification technique	Affinity purification Protein A
Concentration	0.266 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

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	1/1000 - 1/5000
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Not recommended

Species	Mouse
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Species	Rat
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Storage information	Avoid freeze / thaw cycle

Notes

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.

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.

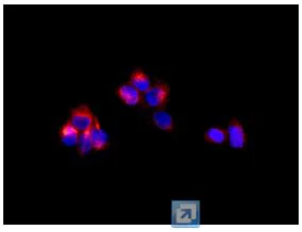
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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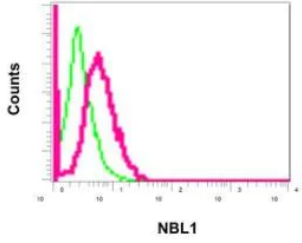
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-NBL1 antibody [EPR12397] (ab174843)

NBL1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-NBL1 antibody

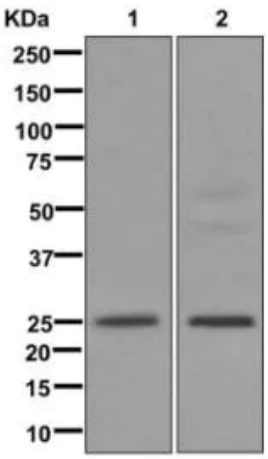
Immunofluorescent analysis of A431 cells labeling NBL1 with ab174843 at 1/100 dilution (red). DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-NBL1 antibody [EPR12397] (ab174843)

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

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] (ab174843)

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'.