abcam

ab169772

Anti-LINGO3 antibody [EPR9635]

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	EPR9635
Purification technique	Affinity purification Protein A
Concentration	0.946 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250 - 1/500
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information LINGO3

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

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	The protein LINGO3 also known as Leucine-Rich Repeat and Ig Domain-Containing contributes to regulating neuronal survival and function. LINGO3 has a molecular mass of approximately 87 kDa and shows expression mostly in the central nervous system. It belongs to the LINGO family which includes several proteins that share overlapping functions in the nervous system.
Biological function summary	LINGO3 plays a significant role in the development and maintenance of neuronal circuits. It often partakes in protein complexes that influence nerve growth and guidance. Its action affects cellular functions such as differentiation and axonal growth contributing to the proper configuration of neural networks.
Pathways	LINGO3 engages with mechanisms involved in neuronal signal transduction and myelination. It operates within the axon guidance pathway and the Nogo receptor pathway. In these pathways proteins such as RTN4 (also known as Nogo) interact with LINGO3 to modulate neuronal growth and inhibition of neurite outgrowth.
Associated diseases and disorders	LINGO3's activity could connect with multiple sclerosis and neurodegenerative conditions. The dysregulation of LINGO3 affects axonal integrity and remyelination processes which are important in the progression of these disorders. LINGO3 relates to proteins like Nogo and MAG which are pivotal in neuropathological conditions impacting myelin stability and repair.

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.

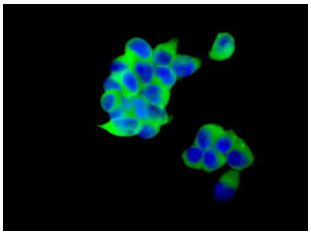
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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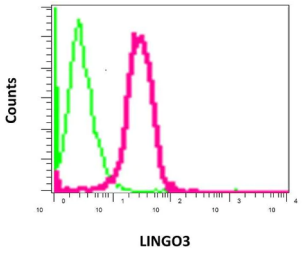
4 product images



Immunocytochemistry/ Immunofluorescence - Anti-LINGO3 antibody [EPR9635] (ab169772)

LINGO3 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LINGO3 antibody

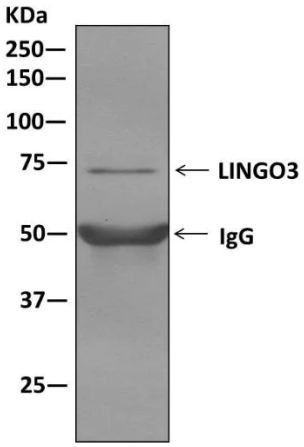
Immunofluorescent analysis of 293T cells labeling LINGO3 with ab169772 at 1/250 dilution (green). DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-LINGO3 antibody [EPR9635] (ab169772)

LINGO3 Flow Cytometry (Intracellular) staining using rabbit Anti-LINGO3 antibody

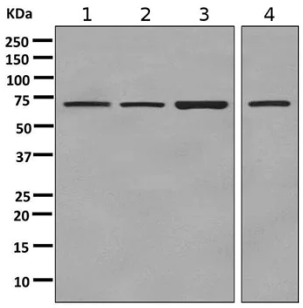
Intracellular Flow Cytometry analysis of permeabilized SH-SY5Y cells labeling LINGO3 with ab169772 at 1/100 dilution (red) compared to a rabbit IgG negative control (green).



Immunoprecipitation - Anti-LINGO3 antibody [EPR9635] (ab169772)

Western blot analysis on immunoprecipitation pellet from SH-SY5Y cell lysate using ab169772.
All lanes:
Immunoprecipitation - Anti-LINGO3 antibody [EPR9635] (ab169772)

Predicted band size: 65 kDa



Western blot - Anti-LINGO3 antibody [EPR9635] (ab169772)

All lanes:
Western blot - Anti-LINGO3 antibody [EPR9635] (ab169772) at 1/1000 dilution

Lane 1:
SH-SY5Y cell lysate at 10 µg

Lane 2:
U87-MG cell lysate at 10 µg

Lane 3:
293T cell lysate at 10 µg

Lane 4:
NCI-H460 cell lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 65 kDa

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