abcam

ab133732

Anti-Netrin G2 antibody [EPR4570(2)]

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	EPR4570(2)
Purification technique	Affinity purification Protein A
Dissociation constant	3.4×10^{-11} M
Concentration	0.929 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

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	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information NTNG2

Function	Involved in controlling patterning and neuronal circuit formation at the laminar, cellular, subcellular and synaptic levels. Promotes neurite outgrowth of both axons and dendrites.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Stable for 12 months at -20°C

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	Netrin G2 also known as Netrin-G2 or NTNG2 is a protein that weighs approximately 61 kDa. Netrin G2 belongs to the Netrin family and operates through binding with its receptors. It is expressed mainly in the central nervous system particularly in the brain regions like cortex and hippocampus. The protein facilitates communication across nerve cells by directing axon guidance and maintaining synaptic plasticity.
Biological function summary	This protein plays an essential role in neuronal development and synaptic connections. Netrin G2 acts as a part of cell surface signaling modules allowing interaction with other molecular entities. It binds to Netrin G2 ligands which helps stabilize long-range axonal trajectories. Due to this function Netrin G2 contributes to maintaining proper neural circuit assembly necessary for cognitive functions.
Pathways	Netrin G2 plays a part in the axon guidance and synaptogenesis pathways. It interacts with other guidance cues proteins such as DCC (Deleted in Colorectal Cancer) and UNC5B (Unc-5 Netrin Receptor B) which also participate in the regulation of axonal mapping. Throughout these pathways it ensures neurons reach their correct destination therefore influencing neural map precision and adaptability.
Associated diseases and disorders	Mutations or dysregulation of Netrin G2 have associations with neurological conditions like schizophrenia and autism spectrum disorders. Alterations in Netrin G2 might affect its interaction with related proteins like DCC in these conditions. These disruptions can contribute to improper brain function by interfering with typical pathways of axonal targeting and synaptic 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

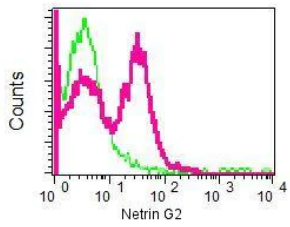
We do not recommend this combination. It is not covered by our product promise.

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.

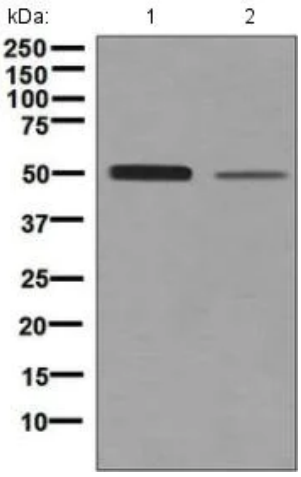
3 product images



Flow Cytometry - Anti-Netrin G2 antibody [EPR4570(2)] (ab133732)

Netrin G2 Flow Cytometry staining using rabbit Anti-Netrin G2 antibody

Flow cytometry analysis of Jurkat cells staining Netrin G2, using ab133732 at 1/100 dilution (red) or a control Rabbit IgG (green).



Western blot - Anti-Netrin G2 antibody [EPR4570(2)] (ab133732)

All lanes:
Western blot - Anti-Netrin G2 antibody [EPR4570(2)] (ab133732) at 1/1000 dilution

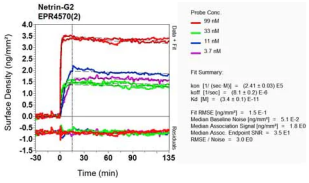
Lane 1:
Fetal brain tissue lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Secondary

All lanes:
HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

Predicted band size: 60 kDa



OI-RD Scanning - Anti-Netrin G2 antibody [EPR4570(2)] (ab133732)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

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