Product datasheet

Anti-Netrin 1 antibody [EPR5428] ab126729

Overview

Product name  Anti-Netrin 1 antibody [EPR5428]
Description  Rabbit monoclonal [EPR5428] to Netrin 1
Host species  Rabbit
Tested applications  Suitable for: WB, ICC/IF
Unsuitable for: IHC-P
Species reactivity  Reacts with: Mouse, Rat, Human
Immunogen  Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human Netrin 1 aa 550 to the C-terminus. The exact sequence is proprietary.
Database link: O95631
(Peptide available as ab192272)
General notes
Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents
We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.
This product is a recombinant rabbit monoclonal antibody.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer  pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR5428
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab126729 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★☆☆☆</td>
<td>1/1000 - 1/10000. Detects a band of approximately 75 kDa (predicted molecular weight: 67 kDa). Can be blocked with Netrin 1 peptide (ab192272).</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>1/500. For unpurified use at 1/50 - 1/100.</td>
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Application notes: Is unsuitable for IHC-P.

Target

Function: Netrins control guidance of CNS commissural axons and peripheral motor axons. Its association with either DCC or some UNC5 receptors will lead to axon attraction or repulsion, respectively. It also serve as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Involved in tumorigenesis by regulating apoptosis.

Tissue specificity: Widely expressed in normal adult tissues with highest levels in heart, small intestine, colon, liver and prostate. Reduced expression in brain tumors and neuroblastomas.

Sequence similarities: Contains 3 laminin EGF-like domains. Contains 1 laminin N-terminal domain. Contains 1 NTR domain.

Cellular localization: Secreted > extracellular space > extracellular matrix.

Images
Immunocytochemistry/Immunofluorescence analysis of HT-29 cells labelling Netrin 1 with purified ab126729 at 1/500. Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).

All lanes: Anti-Netrin 1 antibody [EPR5428] (ab126729) at 1/1000 dilution (purified)

Lane 1: Mouse kidney tissue lysate
Lane 2: Mouse heart tissue lysate
Lane 3: Rat kidney tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 67 kDa
Observed band size: 75 kDa
why is the actual band size different from the predicted?

Blocking and dilution buffer: 5% NFDM/TBST.
Anti-Netrin 1 antibody [EPR5428] (ab126729) at 1/1000 dilution (purified) + Human fetal brain tissue lysate at 20 µg

**Secondary**
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

**Predicted band size:** 67 kDa
**Observed band size:** 75 kDa *why is the actual band size different from the predicted?*

Blocking and dilution buffer: 5% NFDM/TBST.

**All lanes:** Anti-Netrin 1 antibody [EPR5428] (ab126729) at 1/1000 dilution (unpurified)

**Lane 1:** Human fetal brain lysate
**Lane 2:** Human small intestine lysate

Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes:** HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Predicted band size:** 67 kDa

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Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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