Product name: Anti-Tenascin C antibody [EPR4219] ab108930

Description: Rabbit monoclonal [EPR4219] to Tenascin C

Host species: Rabbit

Specificity: IHC on human tissues which we tested (such as testis, pancreas and stomach) showed non-specific staining. We don’t recommend this antibody for IHC on human tissues.

Tested applications: Suitable for: WB, IHC-P, IHC-Fr
Unsuitable for: ICC or IP

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide within Human Tenascin C aa 2150-2250. The exact sequence is proprietary.
Database link: P24821

Positive control: IHC-Fr: Mouse E14 spinal cord and cerebellar cortex tissue; Rat cerebellar cortex tissue. IHC-P: Rat cerebellar cortex tissue; Mouse E14 spinal cord and cerebellar cortex tissue. WB: U87-MG cell lysate; Postnatal mouse cerebellum lysate; Postnatal rat brain lysate; Human fetal brain lysate.

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: 50% Glycerol, PBS, 0.05% BSA
Purity  Protein A purified  
Clonality  Monoclonal  
Clone number  EPR4219  
Isotype  IgG  

Applications

Our Abpromise guarantee covers the use of ab108930 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>IHC-P</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration. PubMed: 24384131</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antigen retrieval is recommended.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Application notes  Is unsuitable for ICC or IP.

Target

Function  Extracellular matrix protein implicated in guidance of migrating neurons as well as axons during development, synaptic plasticity as well as neuronal regeneration. Promotes neurite outgrowth from cortical neurons grown on a monolayer of astrocytes. Ligand for integrins alpha-8/beta-1, alpha-9/beta-1, alpha-V/beta-3 and alpha-V/beta-6.

Sequence similarities  Belongs to the tenascin family.  
Contains 15 EGF-like domains.  
Contains 1 fibrinogen C-terminal domain.  
Contains 15 fibronectin type-III domains.

Cellular localization  Secreted > extracellular space > extracellular matrix.

Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebellar cortex labeling Tenascin C with ab108930 at 1/500 dilution (0.854 μg/ml). Heat mediated antigen retrieval was performed using Tris/EDTA Buffer, pH 9 (ab93684). A ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used. Hematoxylin counterstain. Staining on the molecular layer of rat cerebellar cortex (PMID: 1372043) is observed.

Immunohistochemistry (Frozen sections) analysis of mouse E14 spinal cord labeling Tenascin C with ab108930 at 1/100 dilution (4.27μg/ml). Tissue was fixed with 4% PFA and permeabilized with 0.2% TritonX-100. Antigen retrieval was performed using a heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20). ab150077, an AlexaFluor® 488 Goat anti-Rabbit secondary antibody was used at 1/1000 (2 μg/ml). DAPI nuclear counterstain.

Positive staining on mesenchymal condensations during chondrogenesis of mouse E14 embryo (PMID: 9822997; PMID: 19586317; PMID: 24778247) is observed.
All lanes: Anti-Tenascin C antibody [EPR4219] (ab108930) at 1/1000 dilution

Lane 1: Human fetal brain
Lane 2: Human liver

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 241 kDa
Observed band size: 250 kDa

why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking and diluting buffer and concentration: 5% NFDM /TBST.
Liver is negative control (PMID: 1717349). The molecular weight observed is consistent with what has been described in the literature (PMID: 10462531).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse E14 spinal cord tissue sections labeling Tenascin C with ab108930 at 1/500 dilution (0.854 µg/ml). Heat mediated antigen retrieval was performed using Tris/EDTA buffer, pH 9 (ab93684). A ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used. Hematoxylin counterstain.
Positive staining on mesenchymal condensations during chondrogenesis of mouse E14 embryo (PMID: 9822997; PMID: 19586317; PMID: 24778247) is observed.
Anti-Tenascin C antibody [EPR4219] (ab108930) at 1/1000 dilution + U87-MG (human glioblastoma) whole cell lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 241 kDa
Observed band size: 250 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking and diluting buffer and concentration: 5% NFDM /TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID: 10462531).

Immunohistochemistry (Frozen sections) analysis of rat cerebellar cortex labeling Tenascin C with ab108930 at 1/100 dilution (4.27µg/ml). Tissue was fixed with 4% PFA and permeabilized with 0.2% TritonX-100. Antigen retrieval was performed using a heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).

ab150077, an AlexaFluor® 488 Goat anti-Rabbit secondary antibody was used at 1/1000 (2 µg/ml). DAPI nuclear counterstain.

Positive staining on the molecular layer of rat cerebellar cortex (PMID: 1372043) is observed.
Immunohistochemistry (Frozen sections) analysis of mouse E14 cerebellar cortex labeling Tenascin C with ab108930 at 1/100 dilution (4.27μg/ml). Tissue was fixed with 4% PFA and permeabilized with 0.2% TritonX-100. Antigen retrieval was performed using a heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20). ab150077, an AlexaFluor® 488 Goat anti-Rabbit secondary antibody was used at 1/1000 (2 μg/ml). DAPI nuclear counterstain.

Positive staining on the molecular layer of mouse E14 cerebellar cortex (PMID: 1372043) is observed.

All lanes: Anti-Tenascin C antibody [EPR4219] (ab108930) at 1/1000 dilution

Lane 1: Postnatal (P0) mouse cerebellum
Lane 2: Postnatal (P0) rat brain

Lysates/proteins at 20 μg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 241 kDa
Observed band size: 250 kDa why is the actual band size different from the predicted?

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure Time:
Lane 1: 15 seconds
Lane 2: 30 seconds

The molecular weight observed is consistent with what has been described in the literature (PMID: 10462531).
**Western blot - Anti-Tenascin C antibody [EPR4219] (ab108930)**

Anti-Tenascin C antibody [EPR4219] (ab108930) at 1/1000 dilution + Human fetal brain lysate at 10 µg

**Predicted band size:** 241 kDa

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**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cerebellar cortex labeling Tenascin C with ab108930 at 1/500 dilution (0.854 µg/ml).** Heat mediated antigen retrieval was performed using Tris/EDTA buffer, pH 9 (ab93684). Hematoxylin was used to counterstain. A ready to use Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used. Staining on the molecular layer of mouse cerebellar cortex (PMID: 1372043) is observed.

**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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