Product datasheet

Anti-Tenascin C antibody [T2H5] ab3970

Overview

Product name Anti-Tenascin C antibody [T2H5]
Description Mouse monoclonal [T2H5] to Tenascin C
Host species Mouse
Tested applications Suitable for: IHC-P, IP, WB, ICC/IF
Species reactivity Reacts with: Human
Immunogen Full length native protein (purified from a homogenate of a mammary tumour specimen) (Human).
Positive control Human tonsil tissue
General notes Tenascin is a high molecular weight, multifunctional, hexameric extracellular matrix glycoprotein expressed in association with mesenchymal epithelial interactions during development and in the neovascularure and stroma of undifferentiated tumors. It has been described under a variety of names: cytotactin, hexabrachion protein, J1, myotendinous antigen (MI) and glioma mesenchymal extracellular matrix (GMEM). The tenascin molecule is a disulfide-linked hexamer. The expression of tenascin is associated with development and growth, both normal and pathological, whereas the distribution in normal adult tissue is restricted.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: PBS
Purity Protein A purified
Purification notes Purified from hybridoma culture supernatant. Purity >95% by SDS-PAGE.
Primary antibody notes Tenascin is a high molecular weight, multifunctional, hexameric extracellular matrix glycoprotein expressed in association with mesenchymal epithelial interactions during development and in the neovasculature and stroma of undifferentiated tumors. It has been described under a variety of names: cytotactin, hexabrachion protein, J1, myotendinous antigen (MI) and glioma mesenchymal extracellular matrix (GMEM). The tenascin molecule is a disulfide-linked hexamer. The expression...
of tenascin is associated with development and growth, both normal and pathological, whereas
the distribution in normal adult tissue is restricted.

Clonality
Monoclonal

Clone number
T2H5

Myeloma
unknown

Isotype
IgG1

Light chain type
unknown

Applications

Our Abpromise guarantee covers the use of ab3970 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>
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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Detects a band of approximately 240 kDa.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 20435685</td>
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</tbody>
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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.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tenascin C antibody [T2H5] (ab3970)

ab3970 staining paraffin embedded tissue sections.

Western blot - Anti-Tenascin C antibody [T2H5] (ab3970)

Anti-Tenascin C antibody [T2H5] (ab3970) at 1 µg/ml + U2OS (Human osteosarcoma cell line) Whole Cell Lysate at 10 µg

**Secondary**

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 265 kDa

why is the actual band size different from the predicted?

**Additional bands at:** 34 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 20 minutes

Tenascin C contains an extensive number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.

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