

Product datasheet

Anti-Tenascin C antibody [EB2] ab88280

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Overview

Product name	Anti-Tenascin C antibody [EB2]
Description	Mouse monoclonal [EB2] to Tenascin C
Host species	Mouse
Specificity	ab88280 reacts with the 4th and 5th fibronectin repeats of human Tenascin C polypeptides.
Tested applications	Suitable for: IHC-Fr, WB
Species reactivity	Reacts with: Human
Immunogen	Purified Tenascin C from human fetal fibroblasts.
Positive control	Vulva carcinoma
General notes	<p>ab88280 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Primary antibody notes	ab88280 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.

Clonality	Monoclonal
Clone number	EB2
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab88280 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
WB		1/1000. Predicted molecular weight: 241 kDa.

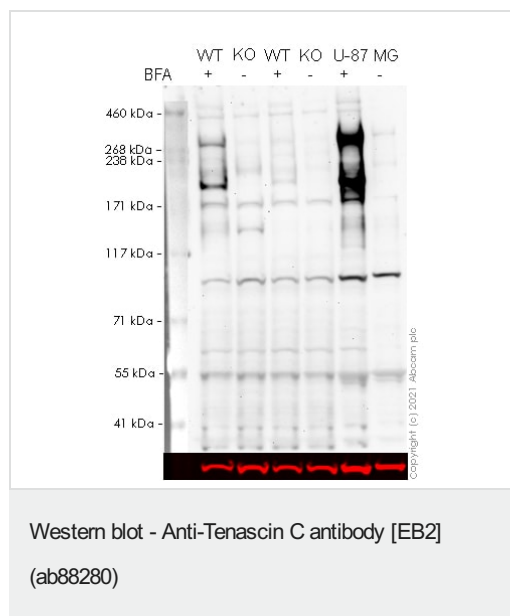
Target

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



All lanes : Anti-Tenascin C antibody [EB2] (ab88280) at 1/1000 dilution

Lane 1 : Wild-type U-2 OS Treated BFA (5 ug/mL, 6 h) cell lysate

Lane 2 : TNC knockout U-2 OS Treated BFA (5 ug/mL, 6 h) cell lysate

Lane 3 : Wild-type U-2 OS Vehicle Control BFA (0 ug/mL, 6 h) cell lysate

Lane 4 : TNC knockout U-2 OS Vehicle Control BFA (0 ug/mL, 6 h) cell lysate

Lane 5 : U-87 MG Treated BFA (5ug/mL, 6h) cell lysate

Lane 6 : U-87 MG cell lysate

Lysates/proteins at 40 µg per lane.

Performed under reducing conditions.

Predicted band size: 241 kDa

Observed band size: 200,270 kDa

False colour image of Western blot: Anti-Tenascin C antibody [EB2] staining at 1/1000 dilution, shown in green; Rabbit anti-ACTN4 [EPR2533(2)] ([ab108198](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab88280 was shown to bind specifically to Tenascin C. A band was observed at 200/270 kDa in treated wild-type U-2 OS cell lysates with no signal observed at this size in TNC knockout cell line [ab262488](#) (knockout cell lysate [ab263924](#)). To generate this image, wild-type and TNC knockout U-2 OS cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 2 % BSA in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with Optiblot (ECL reagent [ab133456](#)) and imaged with 16 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Mouse (H+L) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



Immunohistochemistry (Frozen sections) - Anti-Tenascin C antibody [EB2] (ab88280)

ab88280, staining Tenascin C in vulva carcinoma frozen tissue sections by Immunohistochemistry.

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