

Product datasheet

Anti-TIMP3 antibody ab39184

★★★★★ 3 Abreviews 28 References 3 Images

Overview

Product name	Anti-TIMP3 antibody
Description	Rabbit polyclonal to TIMP3
Host species	Rabbit
Specificity	ab39184 binds to TIMP3. It recognizes the glycosylated and unglycosylated forms of TIMP3, and works against native or reduced TIMP3. Ab39184 does not cross react with the other TIMP family members (TIMP1, TIMP2, TIMP4).
Tested applications	Suitable for: ICC/IF, WB, IHC-P, IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide of TIMP3 based on loop #1 of the human TIMP3. Read Abcam's proprietary immunogen policy (Peptide available as ab41152 .)
Positive control	Human and mouse TIMP3 recombinant protein.

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 long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab39184** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

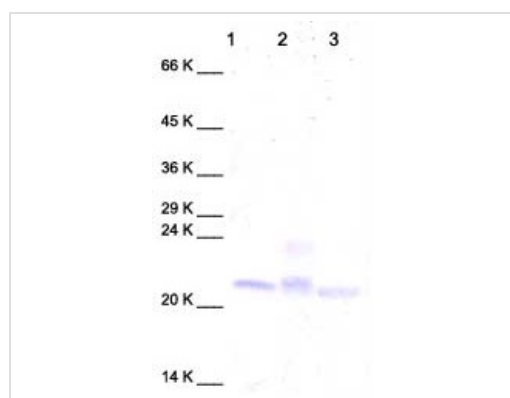
Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 5 µg/ml.

Application	Abreviews	Notes
WB	★★★★★	1/1000 - 1/5000. Detects a band of approximately 24, 30 kDa (predicted molecular weight: 24 kDa). Dilution optimised using Chromogenic detection.
IHC-P		Use at an assay dependent concentration. PubMed: 20448060 ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-Fr	★★★★★	1/200.

Target

Function	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. May form part of a tissue-specific acute response to remodeling stimuli. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-9, MMP-13, MMP-14 and MMP-15.
Involvement in disease	Defects in TIMP3 are the cause of Sorsby fundus dystrophy (SFD) [MIM:136900]. SFD is a rare autosomal dominant macular disorder with an age of onset in the fourth decade. It is characterized by loss of central vision from subretinal neovascularization and atrophy of the ocular tissues. Generally, macular disciform degeneration develops in the patients eye within 6 months to 6 years.
Sequence similarities	Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



Western blot - Anti-TIMP3 antibody (ab39184)

All lanes : Anti-TIMP3 antibody (ab39184)

Lane 1 : Human TIMP3

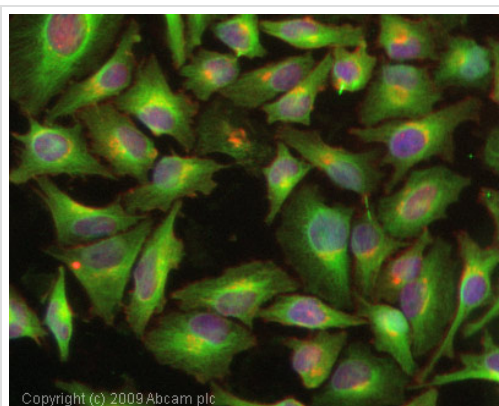
Lane 2 : Mouse TIMP3

Lane 3 : crude control (preparation of extracellular matrix from BHK cells producing recombinant human TIMP-3)

Predicted band size: 24 kDa

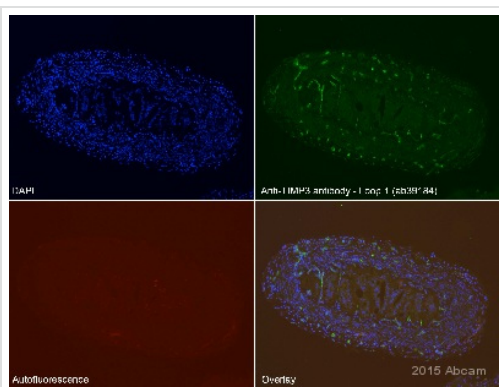
Observed band size: 21 kDa

[why is the actual band size different from the predicted?](#)



Immunocytochemistry/ Immunofluorescence - Anti-TIMP3 antibody (ab39184)

ICC/IF image of ab39184 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab39184, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Frozen sections) - Anti-TIMP3 antibody (ab39184)

This image is courtesy of an Abreview submitted by Julia Watson

ab39184 staining TIMP3 in mouse fallopian tube tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with paraformaldehyde, permeabilized with PBST (PBS / 0.1% v/v Triton X-100) and blocked with 3% donkey serum / 1% BSA in PBST for 1 hour at 25°C. Samples were incubated with primary antibody (1/200 in blocking buffer) for 48 hours at 25°C. An Alexa Fluor® 488-conjugated donkey anti-rabbit IgG polyclonal (1/1000) was used as the secondary antibody.

Positive TIMP3 staining is seen in the extracellular space. The image shows DAPI counterstain, red field (autofluorescence), green field antibody staining and overlay.

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