abcam

Product datasheet

Anti-TIMP3 antibody [EPR23943-149] ab276134

Recombinant RabMAb

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Overview

Product name	Anti-TIMP3 antibody [EPR23943-149]
Description	Rabbit monoclonal [EPR23943-149] to TIMP3
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt (Intra), WB **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MDA-MB-231 whole cell lysate; Human lung and placenta tissue lysates; Recombinant Human TIMP-3 Protein (aa24-211). Flow Cyt (intra): MDA-MB-231 cells. ICC/IF: MDA-MB-231 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23943-149

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab276134 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		1/50.
Flow Cyt (Intra)		1/500.
WB	★★★☆☆ (1)	1/1000. Detects a band of approximately 20, 25 kDa (predicted molecular weight: 24 kDa).

Application notes Is unsuitable for IHC-P or IP.

Target

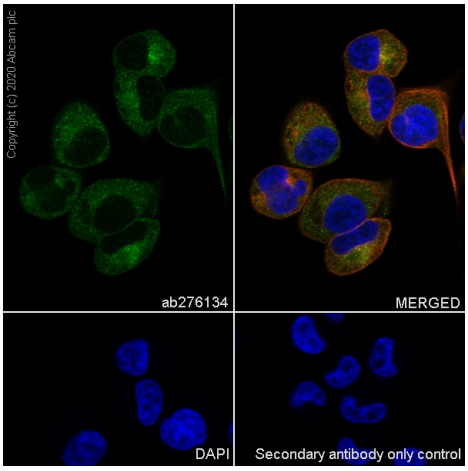
Function Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. May form part of a tissue-specific acute response to remodeling stimuli. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-9, MMP-13, MMP-14 and MMP-15.

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.

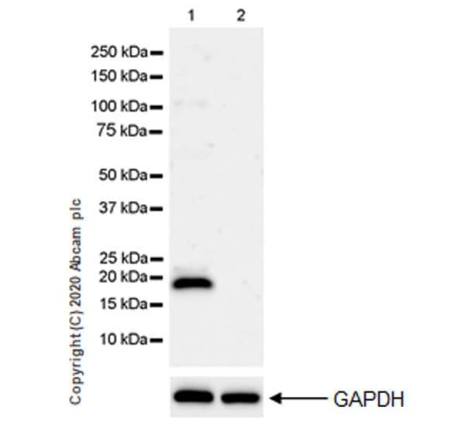
Images



Immunocytochemistry/ Immunofluorescence - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MDA-MB-231 cells labelling TIMP3 with ab276134 at 1/50 (9.16 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in MDA-MB-231 cells is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Western blot - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

All lanes : Anti-TIMP3 antibody [EPR23943-149] (ab276134) at 1/1000 dilution

Lane 1 : Human placenta tissue lysate
Lane 2 : Human liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution (VeriBlot for IP secondary antibody(HRP))

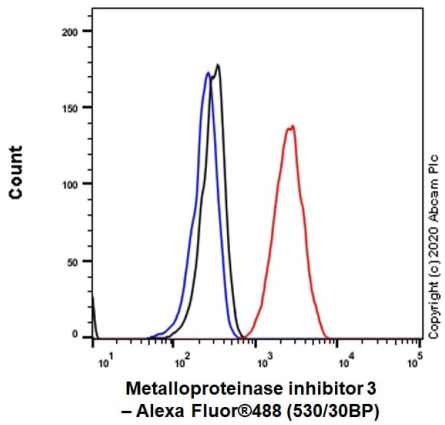
Predicted band size: 24 kDa
Observed band size: 20 kDa

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 8174111, 30894640).

Low expression tissue: human liver (PMID:8174111).

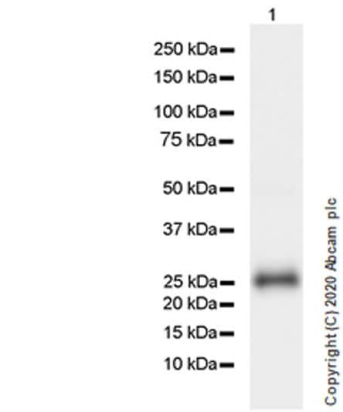
Exposure time: 125 seconds.



Flow Cytometry (Intracellular) - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized MDA-MB-231 (human breast adenocarcinoma epithelial cell) cells labelling TIMP3 with ab276134 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

Anti-TIMP3 antibody [EPR23943-149] (ab276134) at 1/1000 dilution + Recombinant Human TIMP-3 Protein, 20ng

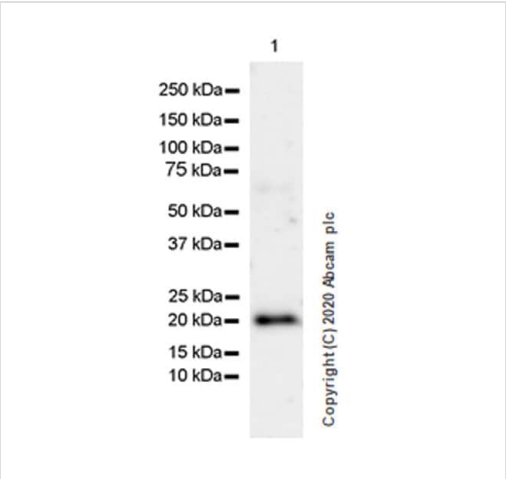
Secondary

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

Predicted band size: 24 kDa
Observed band size: 25 kDa

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

Exposure time: 1 second.



Western blot - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

Anti-TIMP3 antibody [EPR23943-149] (ab276134) at 1/1000 dilution + Human lung tissue lysate at 20 µg

Secondary

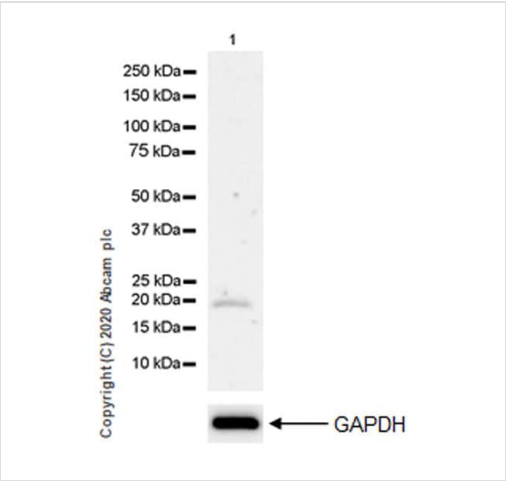
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution (VeriBlot for IP secondary antibody(HRP))

Predicted band size: 24 kDa
Observed band size: 20 kDa

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 8174111, 30894640).

Exposure time: 92 seconds.



Western blot - Anti-TIMP3 antibody [EPR23943-149] (ab276134)

Anti-TIMP3 antibody [EPR23943-149] (ab276134) at 1/1000 dilution + MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

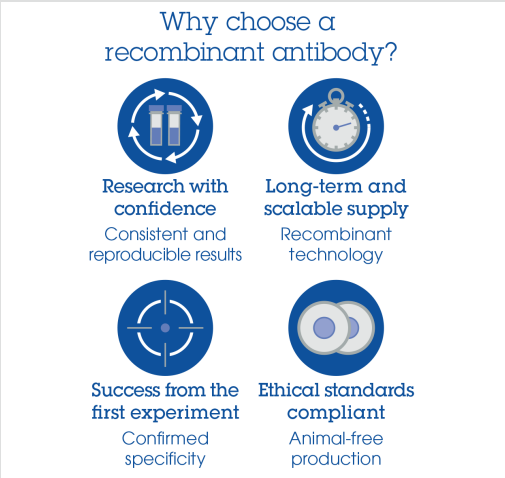
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 24 kDa
Observed band size: 20 kDa

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 8174111, 30894640).

Exposure time: 3 minutes.



Anti-TIMP3 antibody [EPR23943-149] (ab276134)

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