

Anti-TIMP1 antibody [EPR18352] ab211926

敲除验证
重组
RabMAb

★★★★★
[10 Abreviews](#)
[30 References](#)
[13 图像](#)

概述

产品名称	Anti-TIMP1抗体[EPR18352]
描述	兔单克隆抗体[EPR18352] to TIMP1
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, ICC/IF
种属反应性	与反应: Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human prostate cancer lysate; HeLa, SK-OV-3, HT-29, and U-87 MG whole cell lysates. IHC-P: Human colon, pancreas, lung cancer, medullary thyroid carcinoma and prostate cancer tissues. ICC/IF: SK-OV-3 and HT-29 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18352

同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab211926于以下的经测试应用

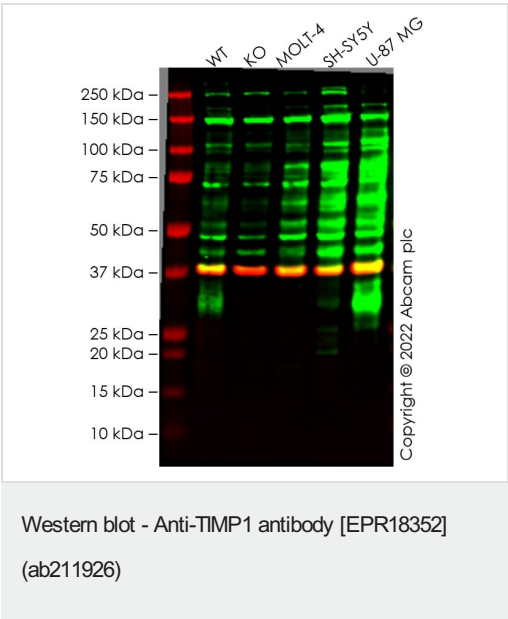
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (3)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★☆ (1)	1/1000. Detects a band of approximately 26 kDa (predicted molecular weight: 23 kDa).
ICC/IF	★★★★☆ (3)	1/500.

靶标

功能	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.
序列相似性	Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.
翻译后修饰	The activity of TIMP1 is dependent on the presence of disulfide bonds.
细胞定位	Secreted.

图片



All lanes : Anti-TIMP1 antibody [EPR18352] (ab211926) at 1/1000 dilution

- Lane 1 :** Wild-type HeLa cell lysate
- Lane 2 :** TIMP1 knockout HeLa cell lysate
- Lane 3 :** MOLT-4 cell lysate
- Lane 4 :** SH-SY5Y cell lysate
- Lane 5 :** U-87 MG cell lysate

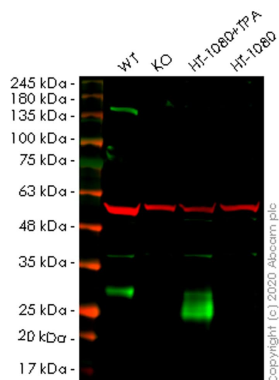
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 23 kDa

Observed band size: 30 kDa

False colour image of Western blot: Anti-TIMP1 antibody [EPR18352] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab211926 was shown to bind specifically to TIMP1. A band was observed at 30 kDa in wild-type HeLa cell lysates with no signal observed at this size in TIMP1 knockout cell line [ab264022](#) (knockout cell lysate [ab260091](#)). The identity of bands observed at higher molecular weights has not been determined. To generate this image, wild-type and TIMP1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution 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 then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-TIMP1 antibody [EPR18352]
(ab211926)

All lanes : Anti-TIMP1 antibody [EPR18352] (ab211926) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : TIMP1 knockout HeLa cell lysate

Lane 3 : HT-1080 treated with 200ng/ml 12-O

Tetradecanoylphorbol-13-acetate (TPA) for 24 hours, cell lysate

Lane 4 : Untreated HT-1080 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

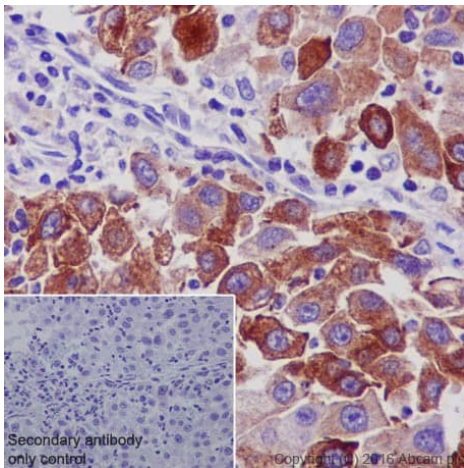
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)
preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 23 kDa

Observed band size: 26 kDa

False colour image of Western blot: Anti-TIMP1 antibody

[EPR18352] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab211926 was shown to bind specifically to TIMP1. A band was observed at 30 kDa in wild-type HeLa cell lysates with no signal observed at this size in TIMP1 knockout cell line [ab264022](#) (knockout cell lysate [ab260091](#)). The identity of bands observed at higher molecular weights has not been determined. To generate this image, wild-type and TIMP1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution 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 then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.

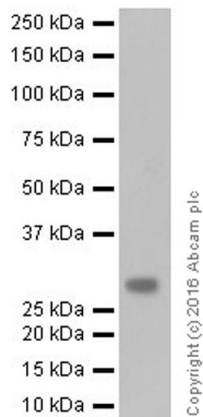


Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling TIMP1 with ab211926 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on human lung cancer is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR18352] (ab211926)



Western blot - Anti-TIMP1 antibody [EPR18352] (ab211926)

Anti-TIMP1 antibody [EPR18352] (ab211926) at 1/1000 dilution + Human prostate cancer lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

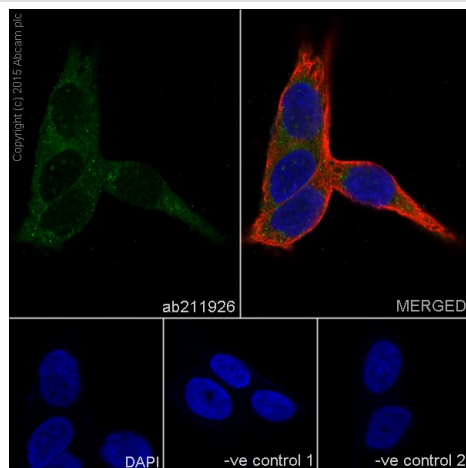
Predicted band size: 23 kDa

Observed band size: 26 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 16517973).



Immunocytochemistry/ Immunofluorescence - Anti-TIMP1 antibody [EPR18352] (ab211926)

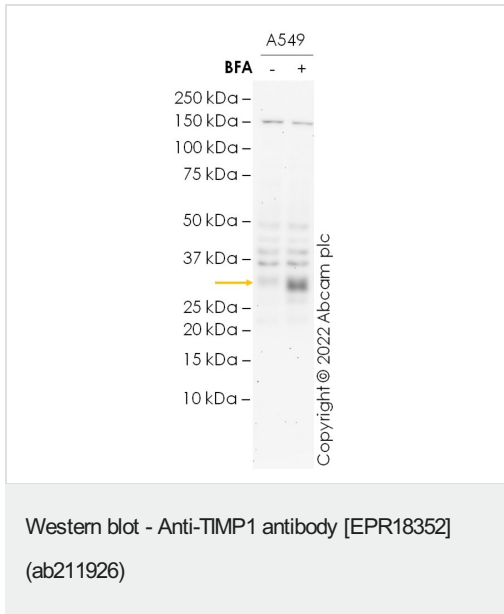
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SK-OV-3 (Human ovarian cancer cell line) cells labeling TIMP1 with ab211926 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on SK-OV-3 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab211926 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



All lanes : Anti-TIMP1 antibody [EPR18352] (ab211926) at 1/1000 dilution

Lane 1 : A549 Vehicle Control BFA (0 u/mL, 6 h) cell lysate

Lane 2 : A549 Treated BFA (5 u/mL, 6 h) cell lysate

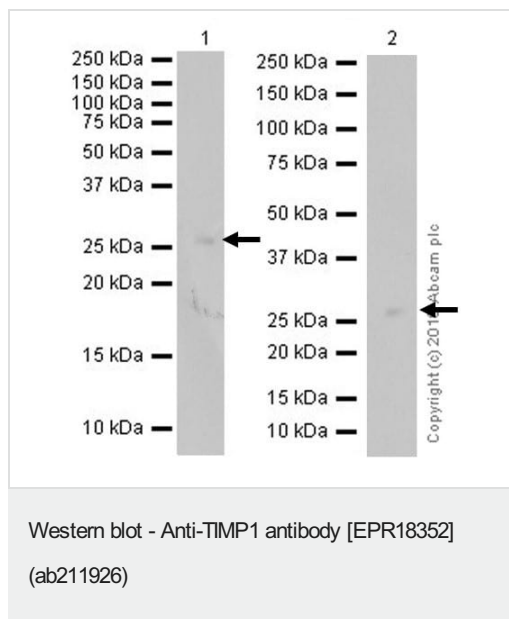
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 23 kDa

Observed band size: 30 kDa

False colour image of Western blot: Anti-TIMP1 antibody [EPR18352] staining at 1/1000 dilution, shown in black. In Western blot, ab211926 was shown to bind specifically to TIMP1. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween20 (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 20 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) at 1/50000 dilution and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



All lanes : Anti-TIMP1 antibody [EPR18352] (ab211926) at 1/1000 dilution

Lane 1 : HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate

Lane 2 : SK-OV-3 (Human ovarian cancer cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

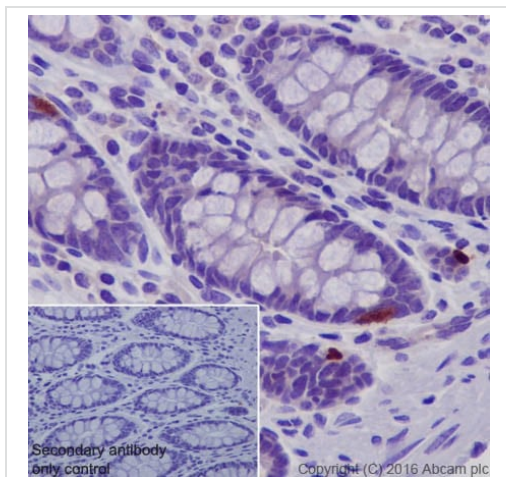
Predicted band size: 23 kDa

Observed band size: 26 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Binding in these cell lines was extremely weak and requires optimization.

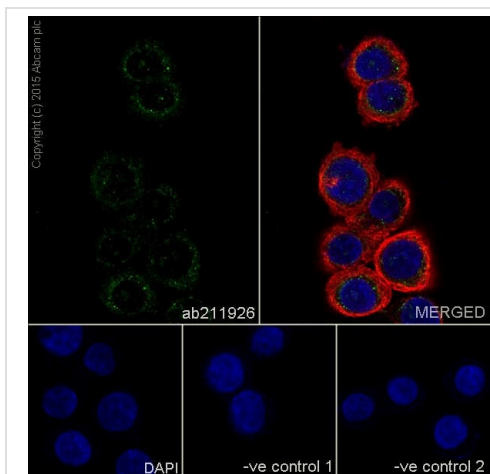


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR18352] (ab211926)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling TIMP1 with ab211926 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on human colon neuroendocrine cell is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TIMP1 antibody [EPR18352] (ab211926)

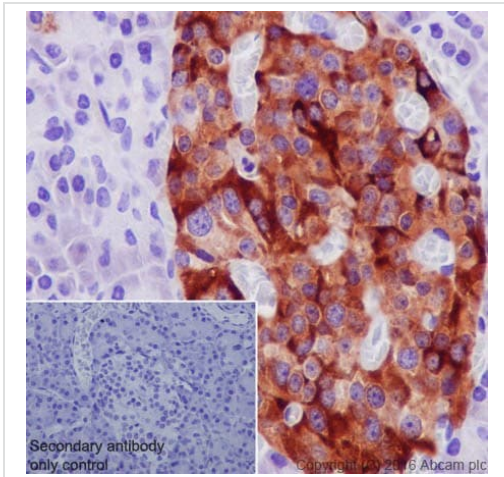
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT-29 (Human colorectal adenocarcinoma cell line) cells labeling TIMP1 with ab211926 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HT-29 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab211926 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

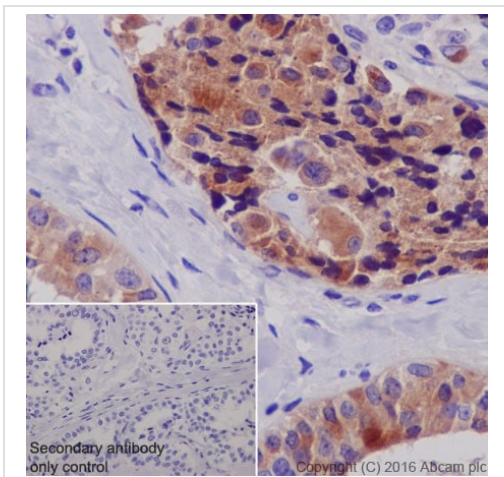


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR18352] (ab211926)

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling TIMP1 with ab211926 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on human islet is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

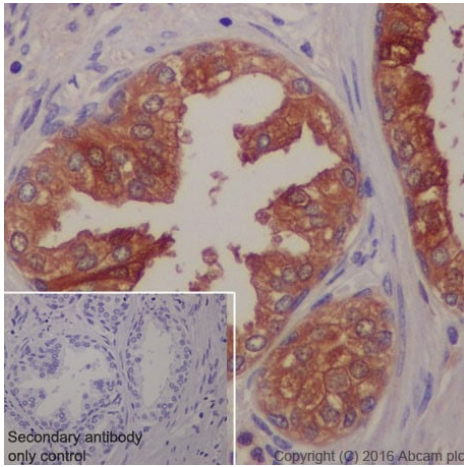


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR18352] (ab211926)

Immunohistochemical analysis of paraffin-embedded human medullary thyroid carcinoma tissue labeling TIMP1 with ab211926 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on human medullary thyroid carcinoma is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



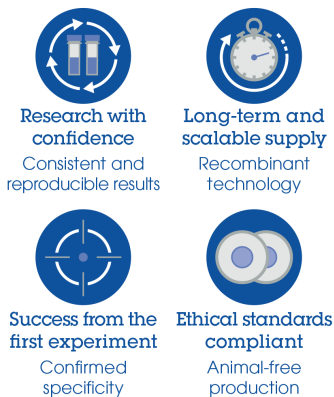
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue labeling TIMP1 with ab211926 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on human prostate cancer is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody
[EPR18352] (ab211926)

Why choose a recombinant antibody?



Anti-TIMP1 antibody [EPR18352] (ab211926)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors