

Product datasheet

Anti-MMP3 antibody [EP1186Y] ab52915

重组 RabMAb

★★★★★ 3 Abreviews 42 References 9 图像

概述

产品名称	Anti-MMP3抗体[EP1186Y]
描述	兔单克隆抗体[EP1186Y] to MMP3
宿主	Rabbit
特异性	79% identities with MMP10
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human MMP3 aa 450 to the C-terminus (C terminal). The exact sequence is proprietary.
阳性对照	Human gastric carcinoma tissue.
常规说明	

A trial size is available to purchase for this antibody.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#)

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

Constituents: 49% PBS, 50% Glycerol, 0.05% BSA

纯度 Protein A purified
克隆 单克隆
克隆编号 EP1186Y
同种型 IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab52915** in the following tested applications.

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

应用	Ab评论	说明
WB		1/1000 - 1/20000. Detects a band of approximately 50 kDa (predicted molecular weight: 54 kDa).
IHC-P	★★★★★	1/50.
ICC/IF		1/100 - 1/250.

靶标

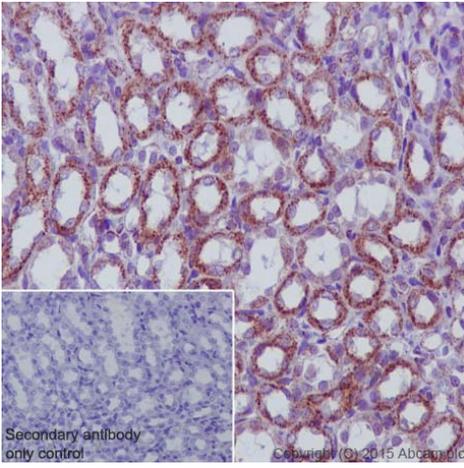
功能 Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.

序列相似性 Belongs to the peptidase M10A family.
Contains 4 hemopexin-like domains.

结构域 The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

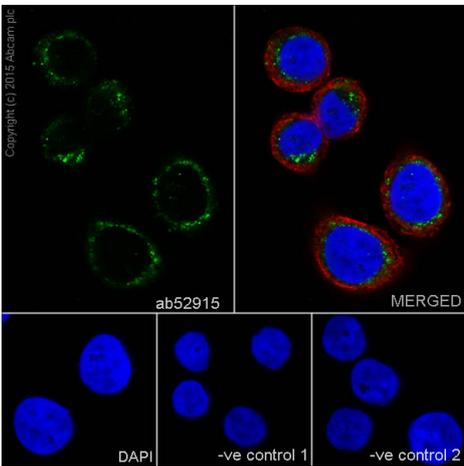
细胞定位 Secreted > extracellular space > extracellular matrix.

图片



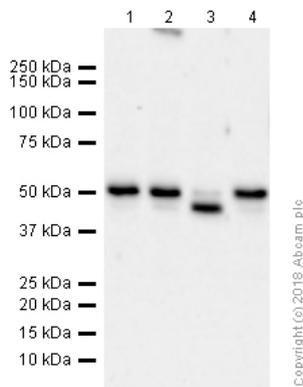
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP3 antibody [EP1186Y] (ab52915)

Immunohistochemical staining of paraffin embedded rat kidney with purified ab52915 at a working dilution of 1/50. The secondary antibody used is [ab97051](#), a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-MMP3 antibody [EP1186Y] (ab52915)

Immunofluorescence staining of HT-29 cells with purified ab52915 at a working dilution of 1/100, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with [ab150120](#) (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 100% methanol and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab52915 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody ([ab150120](#)) at a dilution of 1/500. For negative control 2, [ab7291](#) (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody ([ab150077](#)) at a dilution of 1/400.



Western blot - Anti-MMP3 antibody [EP1186Y]
(ab52915)

All lanes : Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 μ g/ml (purified)

Lane 1 : Raji (Human Burkitt's lymphoma B lymphocyte)whole cell lysate

Lane 2 : HEK293 (Human embryonic kidney epithelial cell) whole cell lysate

Lane 3 : Mouse lung lysate

Lane 4 : Mouse placenta lysate

Lysates/proteins at 20 μ g per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

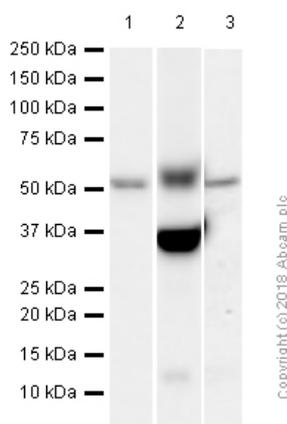
Predicted band size: 54 kDa

Observed band size: 50 kDa

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

Exposure time: 84 seconds

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-MMP3 antibody [EP1186Y]
(ab52915)

All lanes : Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 μ g/ml (purified)

Lane 1 : Rat brain lysate

Lane 2 : Rat liver lysate

Lane 3 : Rat spleen lysate

Lysates/proteins at 20 μ g per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

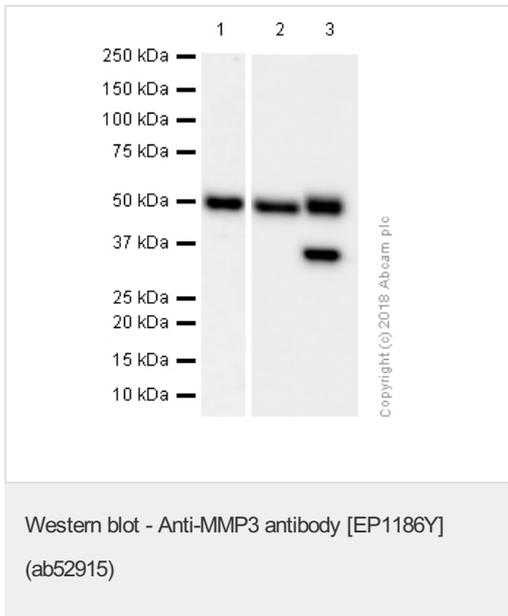
Predicted band size: 54 kDa

Observed band size: 50 kDa [why is the actual band size different from the predicted?](#)

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: Lane 1 & 2: 10 seconds

Lane 3: 3 minutes



All lanes : Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 $\mu\text{g/ml}$ (purified)

Lane 1 : Mouse brain lysate

Lane 2 : Mouse kidney lysate

Lane 3 : Mouse liver lysate

Lysates/proteins at 20 μg per lane.

Secondary

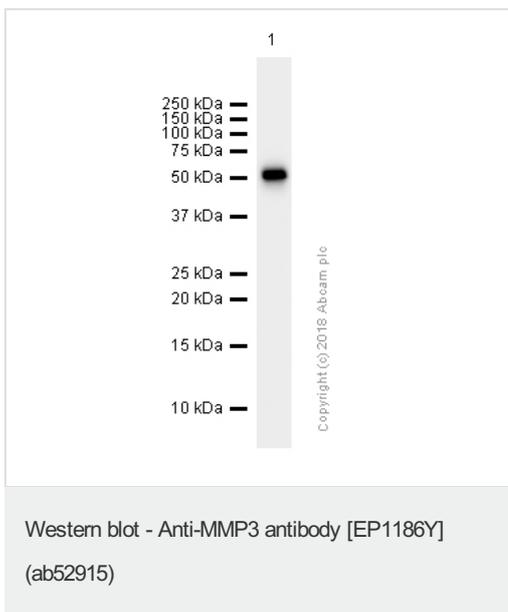
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 54 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 3 minutes

Lane 2 & 3: 4 seconds



Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 $\mu\text{g/ml}$ (purified)
+ Rat kidney lysate at 20 μg

Secondary

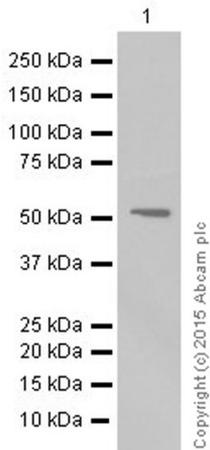
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 54 kDa

Observed band size: 50 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 15 seconds

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-MMP3 antibody [EP1186Y] (ab52915)

Anti-MMP3 antibody [EP1186Y] (ab52915) at 1/20000 dilution (purified) + MMP3 recombinant protein

Secondary

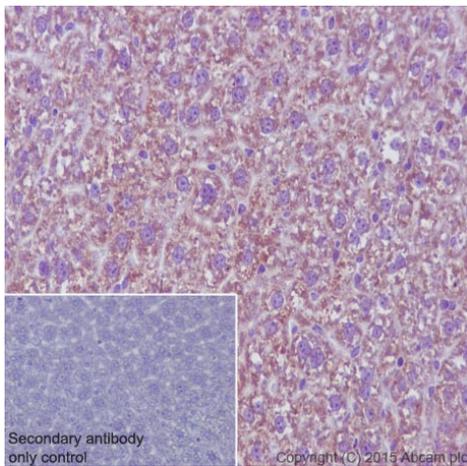
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 54 kDa

Observed band size: 50 kDa [why is the actual band size different from the predicted?](#)

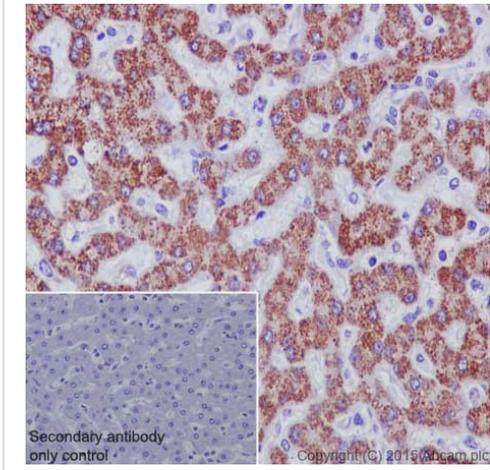
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP3 antibody [EP1186Y] (ab52915)

Immunohistochemical staining of paraffin embedded mouse liver with purified ab52915 at a working dilution of 1/50. The secondary antibody used is [ab97051](#), a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunohistochemical staining of paraffin embedded human liver with purified ab52915 at a working dilution of 1/50. The secondary antibody used is [ab97051](#), a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP3 antibody [EP1186Y] (ab52915)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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