

Product datasheet

Anti-MMP3 antibody [EP1186Y] ab52915

Recombinant RabMAb

★★★★★ **4 Abreviews** **192 References** [10 Images](#)

Overview

Product name	Anti-MMP3 antibody [EP1186Y]
Description	Rabbit monoclonal [EP1186Y] to MMP3
Host species	Rabbit
Specificity	79% identities with MMP10
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human MMP3 aa 450 to the C-terminus (C terminal). The exact sequence is proprietary.
Positive control	WB: Raji, HEK293; mouse lung, placenta, brain, kidney liver lysate; rat brain, liver, spleen, kidney lysate; IHC-P: Rat kidney, mouse liver, human liver. ICC/IF: HT-29 cells.
General notes	<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>

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. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number EP1186Y

Isotype IgG

Applications

The Abpromise guarantee 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.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/20000. Detects a band of approximately 50 kDa (predicted molecular weight: 54 kDa).
IHC-P	★★★★★ (3)	1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. We recommend using a polymer-HRP conjugated secondary antibody. Incubate with ab52915 at 4C overnight.
ICC/IF		1/100 - 1/250.

Target

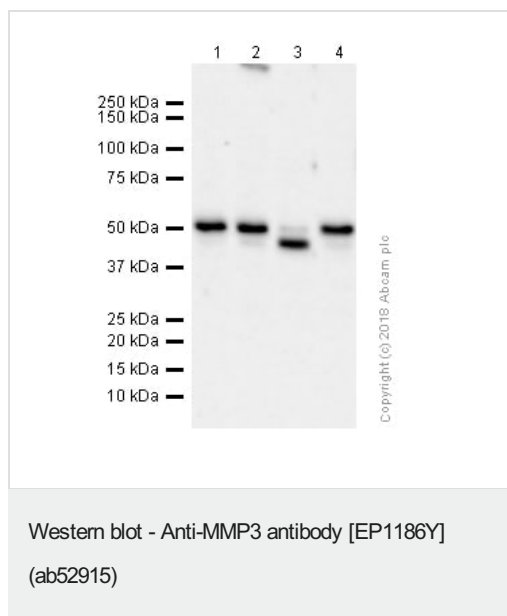
Function Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.

Sequence similarities Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.

Domain 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.

Cellular localization Secreted > extracellular space > extracellular matrix.

Images



All lanes : Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 µg/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 µg per lane.

Secondary

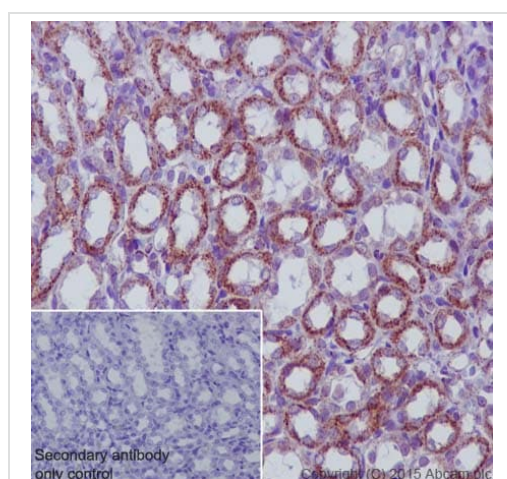
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 54 kDa

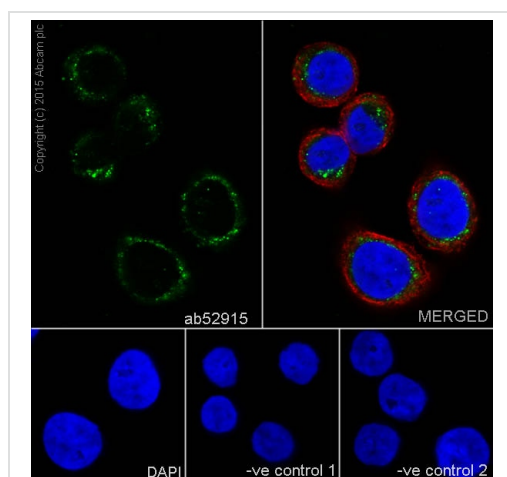
Observed band size: 50 kDa

Exposure time: 84 seconds

Blocking and diluting buffer: 5% NFDm/TBST.

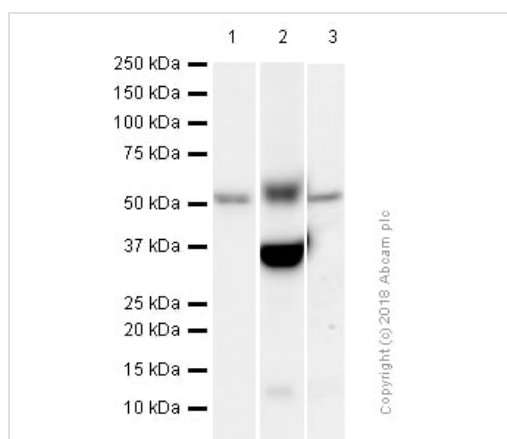


Immunohistochemical staining of paraffin embedded rat kidney with purified ab52915 at a working dilution of 1/50. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA 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 µg/ml (purified)

Lane 1 : Rat brain lysate

Lane 2 : Rat liver lysate

Lane 3 : Rat spleen lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

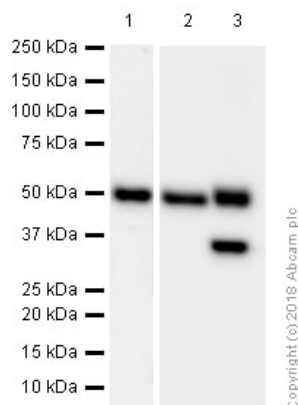
Predicted band size: 54 kDa

Observed band size: 50 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: Lane 1 & 2: 10 seconds

Lane 3: 3 minutes



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

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

Lane 1 : Mouse brain lysate

Lane 2 : Mouse kidney lysate

Lane 3 : Mouse liver lysate

Lysates/proteins at 20 μ g per lane.

Secondary

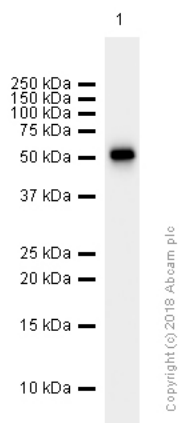
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 54 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 3 minutes

Lane 2 & 3: 4 seconds



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

Anti-MMP3 antibody [EP1186Y] (ab52915) at 0.37 μ g/ml (purified)
+ Rat kidney lysate at 20 μ g

Secondary

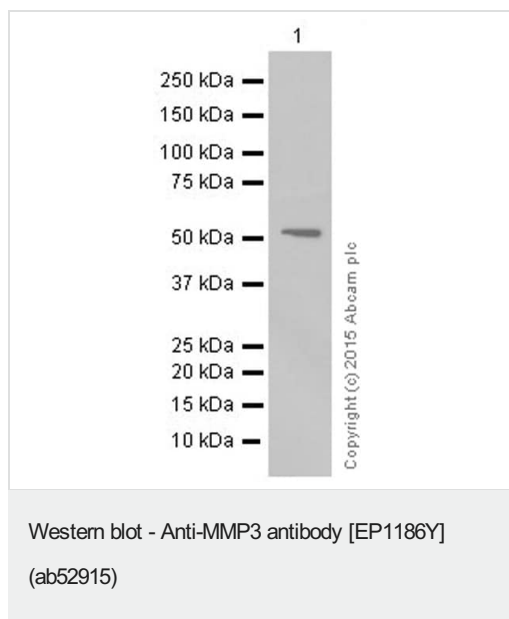
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 54 kDa

Observed band size: 50 kDa

Exposure time: 15 seconds

Blocking and diluting buffer: 5% NFDM/TBST



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

Secondary

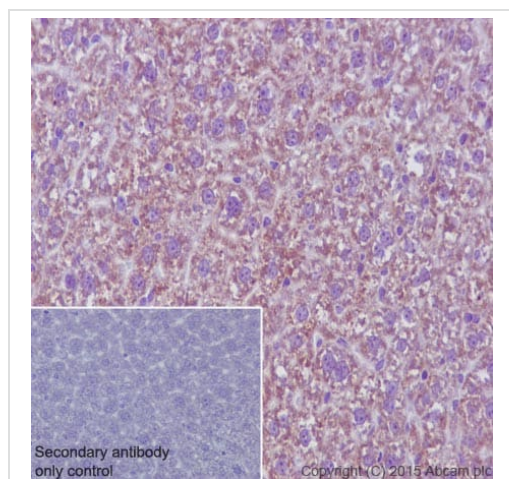
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 54 kDa

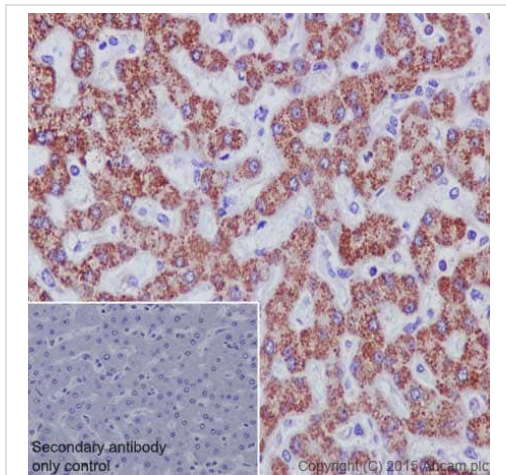
Observed band size: 50 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



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)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-MMP3 antibody [EP1186Y] (ab52915)

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

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