

Product datasheet

Anti-MMP7 antibody [EPR17888-101] ab205525

Recombinant **RabMAb**

[22 References](#) [7 Images](#)

Overview

Product name	Anti-MMP7 antibody [EPR17888-101]
Description	Rabbit monoclonal [EPR17888-101] to MMP7
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549 and BxPC-3 whole cell lysates; Human colon cancer, tonsil and prostate lysates. IHC-P: Human prostatic carcinoma and stomach carcinoma tissues.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17888-101
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab205525 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
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).

Target

Function

Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.

Sequence similarities

Belongs to the peptidase M10A family.

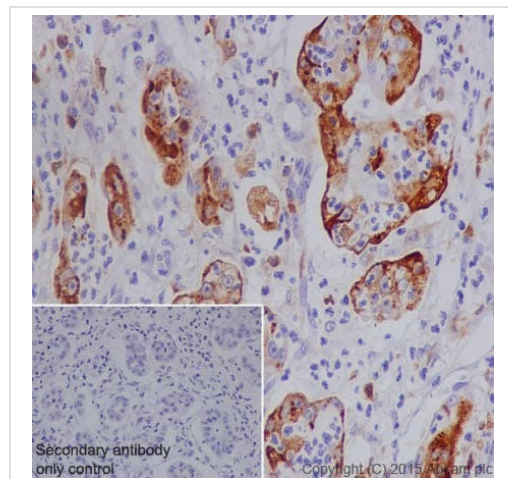
Domain

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



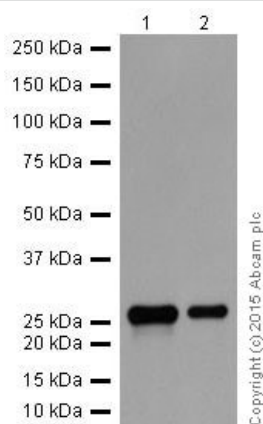
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP7 antibody [EPR17888-101] (ab205525)

Immunohistochemical analysis of paraffin-embedded

Human stomach carcinoma tissue labeling MMP7 with ab205525 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on Human gastric carcinoma tissue 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.



Western blot - Anti-MMP7 antibody [EPR17888-101] (ab205525)

All lanes : Anti-MMP7 antibody [EPR17888-101] (ab205525) at 1/2000 dilution

Lane 1 : A549 (Human lung carcinoma) whole cell lysate

Lane 2 : BxPC-3 (Human pancreas adenocarcinoma cells) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

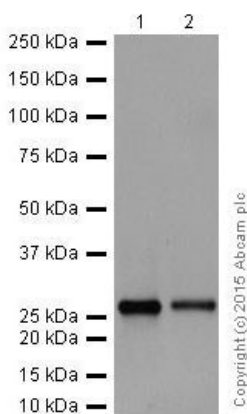
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-MMP7 antibody [EPR17888-101] (ab205525)

All lanes : Anti-MMP7 antibody [EPR17888-101] (ab205525) at 1/1000 dilution

Lane 1 : Human colon cancer lysate

Lane 2 : Human tonsil lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-MMP7 antibody [EPR17888-101] (ab205525) at 1/1000 dilution + Human prostate lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 29 kDa

Observed band size: 29 kDa

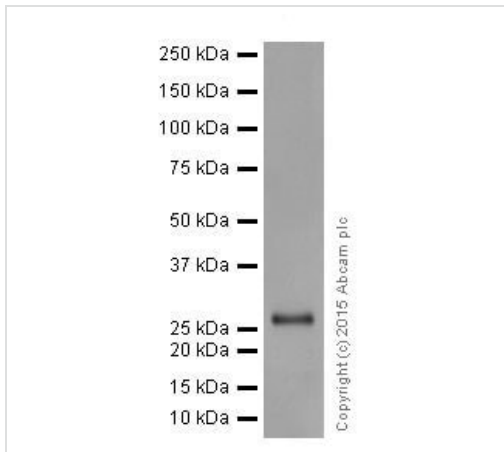
Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

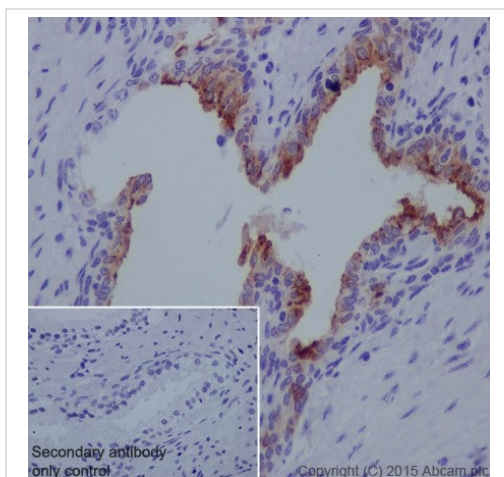
Immunohistochemical analysis of paraffin-embedded Human prostatic carcinoma tissue labeling MMP7 with ab205525 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on Human prostatic carcinoma is observed. Counter stained with Hematoxylin.

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.

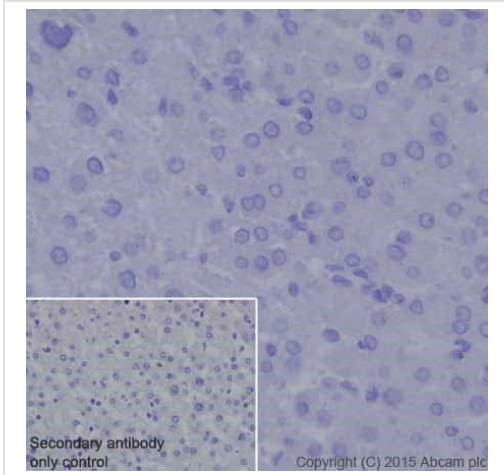
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-MMP7 antibody [EPR17888-101] (ab205525)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP7 antibody [EPR17888-101] (ab205525)







Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling MMP7 with ab205525 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. No staining on Human liver tissue 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-MMP7 antibody [EPR17888-101] (ab205525)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-MMP7 antibody [EPR17888-101] (ab205525)

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

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