Product name: Anti-MMP7 antibody [EPR17888-71] ab207299

Description: Rabbit monoclonal [EPR17888-71] to MMP7

Host species: Rabbit

Tested applications: Suitable for: WB, IHC-P, ICC/IF

Species reactivity: Reacts with: Human

Immunogen: Recombinant full length protein within Human MMP7 aa 1 to the C-terminus. The exact sequence is proprietary. Database link: P09237

Positive control: WB: Human colon cancer lysates; A549 and BxPC-3 whole cell lysates. IHC-P: Human endometrial cancer and breast cancer tissues. ICC/IF: HT-29 and PC-3 cells.

General notes:
- 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 buffer: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR17888-71
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab207299 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
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<td>WB</td>
<td>1/1000. Detects a band of approximately 30 kDa (predicted molecular weight: 30 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<tr>
<td>ICC/IF</td>
<td>1/300.</td>
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Target

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

All lanes: Anti-MMP7 antibody [EPR17888-71] (ab207299) at 1/2000 dilution

Lane 1: A549 (Human lung carcinoma cell line) whole cell lysate
Lane 2: BxPC-3 (Human pancreas adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 30 kDa
Observed band size: 30 kDa
Exposure time: 3 minutes

5% NFDM/TBST: Blocking and dilution buffer.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-3 (Human prostate adenocarcinoma cell line) cells labeling MMP7 with ab207299 at 1/300 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on PC-3 cell line. The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-
-ve control 1: ab207299 at 1/300 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

Immunohistochemical analysis of paraffin-embedded Human endometrial cancer tissue labeling MMP7 with ab207299 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasm staining on Human endometrial 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.
Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue labeling MMP7 with ab207299 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasm staining on cancer cells of breast 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.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT-29 (Human colorectal adenocarcinoma cell line) cells labeling MMP7 with ab207299 at 1/300 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 counterstain is DAPI (blue).

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (Alexa Fluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab207299 at 1/300 dilution followed by ab150120 (Alexa Fluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.
Western blot - Anti-MMP7 antibody [EPR17888-71] (ab207299)

Anti-MMP7 antibody [EPR17888-71] (ab207299) at 1/1000 dilution
+ Human colon cancer lysate at 20 µg

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

**Predicted band size:** 30 kDa
**Observed band size:** 30 kDa

**Exposure time:** 3 minutes

5% NFDM/TBST: Blocking and dilution buffer.

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

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