abcam

Product datasheet

Anti-MMP1 antibody [EP1247Y] - BSA and Azide free ab271845

リコンビナント RabMAb

画像数 10

製品の概要

製品名	Anti-MMP1 antibody [EP1247Y] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EP1247Y] to MMP1 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, ICC/IF, Flow Cyt (Intra) **適用なし:** IP or WB
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human testis, cervical carcinoma and placenta tissues. ICC/IF: HeLa and MCF7 cells. Flow Cyt (intra): HeLa cells.
特記事項	ab271845 is the carrier-free version of **ab52631**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this

species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.20 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP1247Y
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab271845の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. See **IHC antigen retrieval protocols**.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

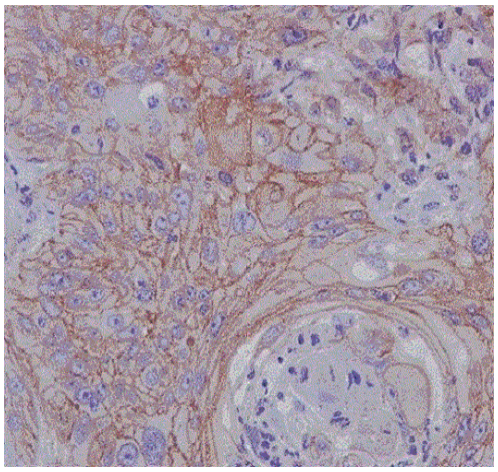
追加情報	Is unsuitable for IP or WB.

ターゲット情報

機能	Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity.
配列類似性	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
ドメイン	There are two distinct domains in this protein; the catalytic N-terminal, and the C-terminal which is involved in substrate specificity and in binding TIMP (tissue inhibitor of metalloproteinases). 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.
翻訳後修飾	Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is

	the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase.
細胞内局在	Secreted > extracellular space > extracellular matrix.

画像

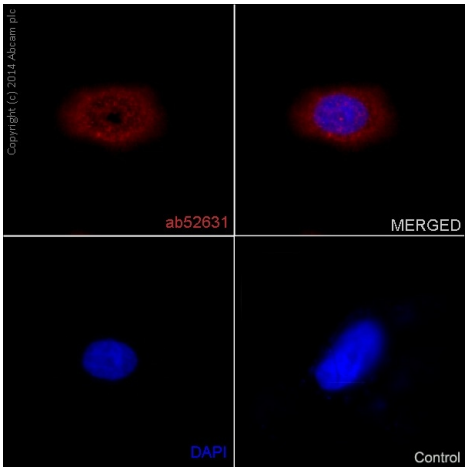


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunohistochemical analysis of paraffin-embedded human squamous cell carcinoma of cervix tissue labeling MMP1 with **ab52631** at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**, 1/500). Counterstained with hematoxylin.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

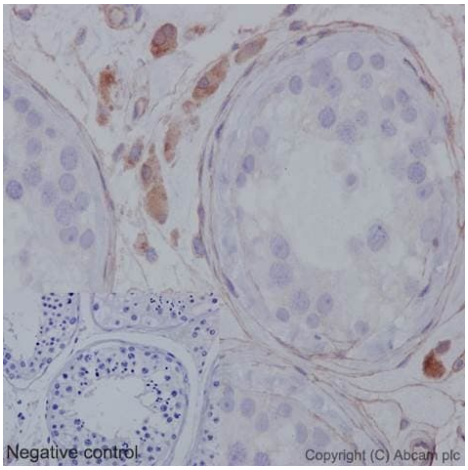


Immunocytochemistry/ Immunofluorescence - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling MMP1 with unpurified **ab52631** at 1/30. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/30) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

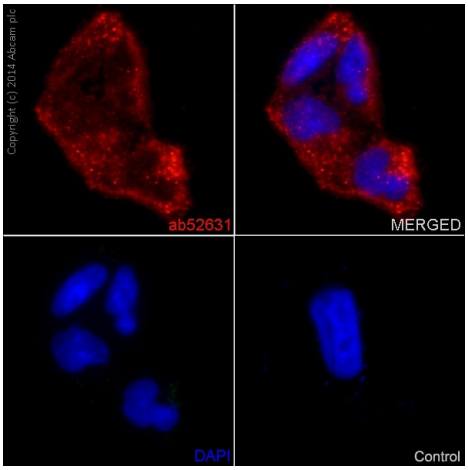


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testis tissue labelling MMP1 with unpurified **ab52631** at 1/60. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

IHC result showed parenchymal cells (such as spermatogonium and spermatocytes) in seminiferous tubules were negative, and the stromal cells were stained.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

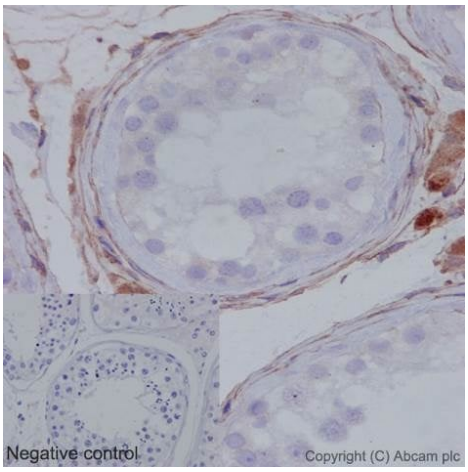


Immunocytochemistry/ Immunofluorescence - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling MMP1 with purified **ab52631** at 1/50. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/50) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

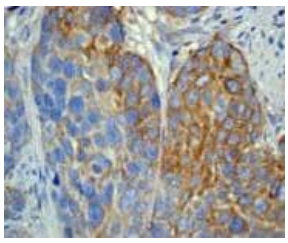


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testis tissue labelling MMP1 with purified **ab52631** at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

IHC result showed parenchymal cells (such as spermatogonium and spermatocytes) in seminiferous tubules were negative, and the stromal cells were stained.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

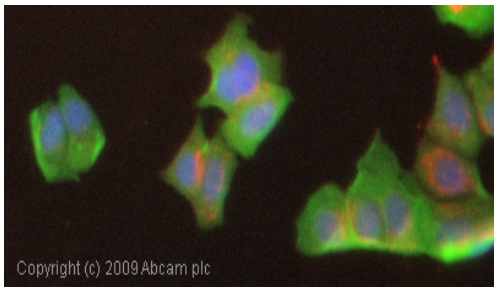


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervical carcinoma tissue labelling MMP1 with **ab52631** at 1/50.

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

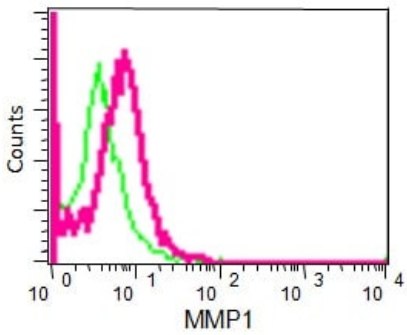
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).



Immunocytochemistry/ Immunofluorescence - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

ICC/IF image of unpurified **ab52631** stained MCF7 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab52631**, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

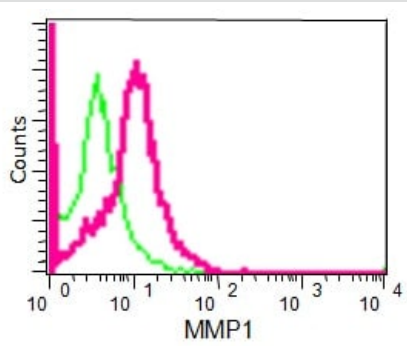
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).



Flow Cytometry (Intracellular) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Intracellular Flow Cytometry analysis of HeLa cells labelling MMP1 with purified **ab52631** at 1/70 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG was used as the secondary antibody (1/150). Green - Isotype control, rabbit monoclonal IgG.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).



Flow Cytometry (Intracellular) - Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

Intracellular Flow Cytometry analysis of HeLa cells labelling MMP1 with unpurified **ab52631** at 1/50 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Green - Isotype control, rabbit monoclonal IgG.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52631**).

Anti-MMP1 antibody [EP1247Y] - BSA and Azide free (ab271845)

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