

## Product datasheet

# Anti-MMP3 antibody ab53015

★★★★★ 6 Abreviews 21 References 画像数 5

### 製品の概要

|              |   |
|--------------|---|
| 製品名          | Anti-MMP3 antibody  |
| 製品の詳細        | Rabbit polyclonal to MMP3   |
| 特異性          | MMP3 antibody detects endogenous levels of total MMP3 protein.                            |
| アプリケーション     | 適用あり: IHC-P, WB, ELISA, ICC/IF  |
| 種交差性         | 交差種: Mouse, Rat, Human  |
| 免疫原          | Synthetic peptide derived from human MMP3 Peptide available as <a href="#">ab134501</a> . |
| ポジティブ・コントロール | Human breast carcinoma tissue, extracts from 293 cells.                                   |

### 製品の特性

|        |  |
|--------|--|
| 製品の状態  | Liquid   |
| 保存方法   | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.              |
| バッファー  | Preservative: 0.02% Sodium Azide<br>Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4 |
| 精製度    | Immunogen affinity purified  |
| ポリ/モノ  | ポリクローナル  |
| アイソタイプ | IgG  |

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab53015** in the following tested applications.

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

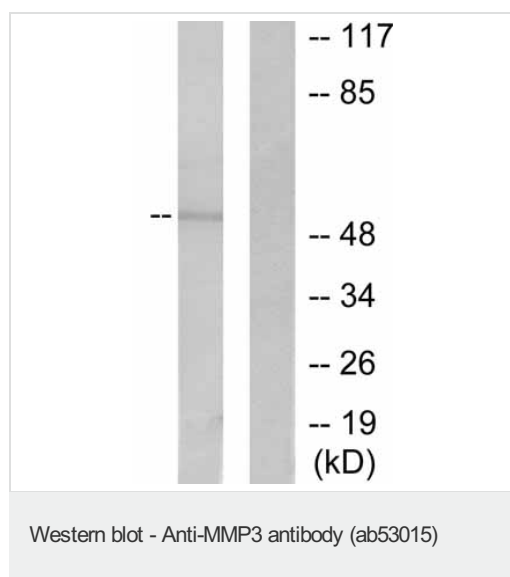
| アプリケーション | Abreviews | 特記事項   |
|----------|-----------|--|
| IHC-P    | ★★★★★     | 1/50 - 1/100.  |
| WB       | ★★★★★     | 1/500 - 1/1000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa). Can be blocked with <a href="#">Human MMP3 peptide (ab134501)</a> . |

| アプリケーション | Abreviews | 特記事項                            |
|----------|-----------|---------------------------------|
| ELISA    |           | 1/10000.                        |
| ICC/IF   | ★★★★★     | Use a concentration of 5 µg/ml. |

## ターゲット情報

|       |  |
|-------|--|
| 機能    | Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.   |
| 配列類似性 | Belongs to the peptidase M10A family.<br>Contains 4 hemopexin-like domains.  |
| ドメイン  | 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. |
| 細胞内局在 | Secreted > extracellular space > extracellular matrix.   |

## 画像



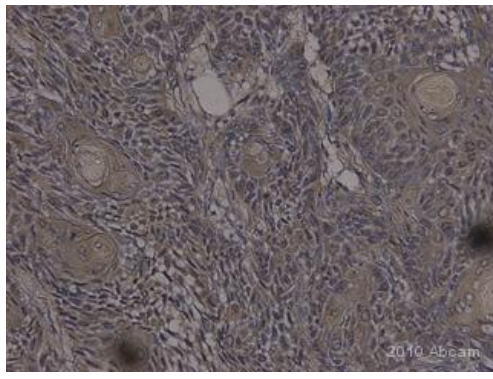
**All lanes** : Anti-MMP3 antibody (ab53015) at 1/500 dilution

**Lane 1** : Extracts from 293 cells, untreated.

**Lane 2** : Extracts from 293 cells, treated with the immunising peptide.

**Predicted band size** : 54 kDa

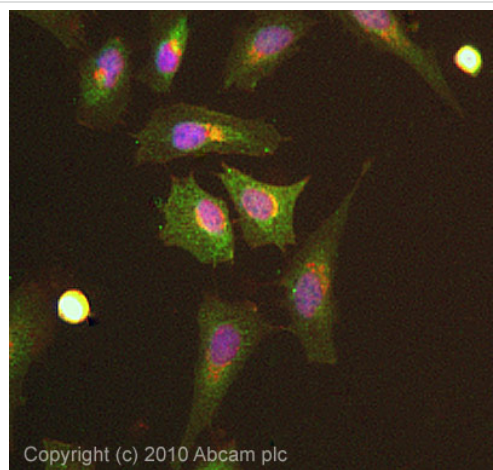
**Observed band size** : 54 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP3 antibody (ab53015)

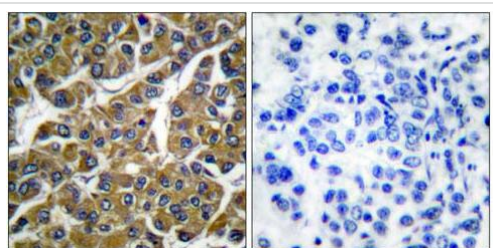
This image is courtesy of an anonymous abreview.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lymphoma labeling MMP3 with ab53015 at 1/100 dilution. Tissue was fixed with formaldehyde; heat-mediated antigen retrieval was performed using citrate buffer (pH 6.0). The tissue was blocked with 1% serum for 1 hour at 25°C. A biotin conjugated polyclonal goat anti-rabbit secondary antibody was used at 1/200 dilution.



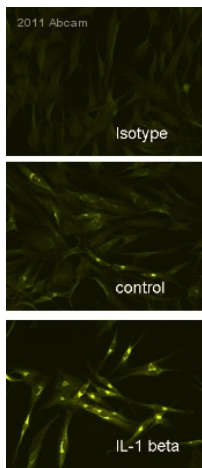
Immunocytochemistry/ Immunofluorescence - Anti-MMP3 antibody (ab53015)

ICC/IF image of ab53015 stained HeLa cells. The cells were 4% formaldehyde 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 (ab53015, 1µg/ml) 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP3 antibody (ab53015)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MMP3 antibody at a dilution of 1/50. Left: without immunizing peptide; Right: with immunizing peptide.



Immunocytochemistry/ Immunofluorescence - Anti-MMP3 antibody (ab53015)

This image is courtesy of an Abreview submitted by Torsten Lowin.

Top image: Isotype control Middle image: Unstimulated cells Bottom image: IL-1 beta stimulated cells (24 hours, 10 ng/ml)

ab53015 staining MMP3 in Human synovial fibroblasts by Immunocytochemistry/ Immunofluorescence. Cells were fixed in formaldehyde and permeabilized in methanol for 15 minutes at -20°C prior to blocking in 1% BSA for 1 hour at 25°C. The primary antibody was diluted 1/1000 and incubated with the sample for 2 hours at 25°C. The secondary antibody was Cy5<sup>®</sup>-conjugated Goat anti-Rabbit polyclonal, diluted 1/200.

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