

## Product datasheet

# Anti-MMP8 antibody ab53017

★★★★☆ [7 Abreviews](#) [12 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-MMP8 antibody
<b>Description</b>	Rabbit polyclonal to MMP8
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide derived from human MMP8
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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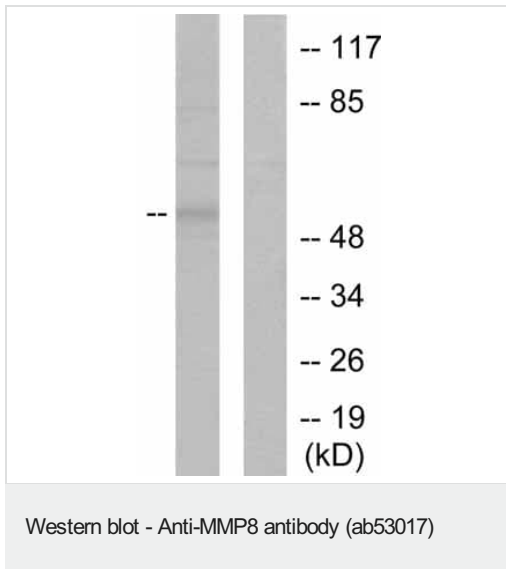
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab53017 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (4)	1/500 - 1/1000. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

## Target

<b>Function</b>	Can degrade fibrillar type I, II, and III collagens.
<b>Tissue specificity</b>	Neutrophils.
<b>Sequence similarities</b>	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
<b>Domain</b>	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.
<b>Cellular localization</b>	Cytoplasmic granule. Secreted > extracellular space > extracellular matrix. Stored in intracellular granules.

## Images



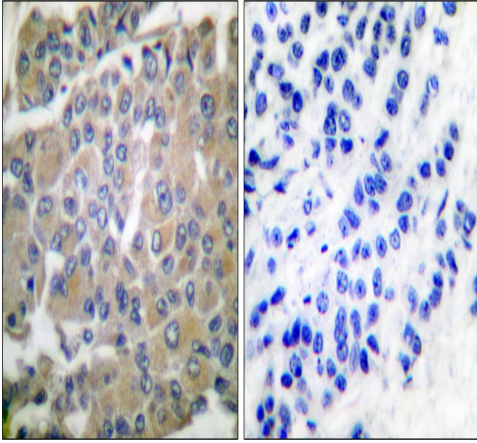
**All lanes** : Anti-MMP8 antibody (ab53017) at 1/500 dilution

**Lane 1** : Extracts from NIH/3T3 cells with no immunizing peptide

**Lane 2** : Extracts from NIH/3T3 cells with immunizing peptide

**Predicted band size:** 53 kDa

**Observed band size:** 53 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP8 antibody (ab53017)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MMP8 antibody at 1/50 dilution. Left hand image; untreated tissue, Right hand image; tissue treated with the immunising peptide.

Immunocytochemistry/ Immunofluorescence - Anti-MMP8 antibody (ab53017)

ICC/IF image of **ab63017** stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab53017, 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.

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

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