

Datasheet for ABIN670341  
**anti-MMP13 antibody (AA 201-300)**

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## Overview

Quantity:	100 µL
Target:	MMP13
Binding Specificity:	AA 201-300
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP13 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MMP13
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	MMP13
Alternative Name:	MMP-13 ( <a href="#">MMP13 Products</a> )

## Target Details

Background:	<p>Synonyms: CLG3, MANDP1, MMP-13, Collagenase 3, Matrix metalloproteinase-13, MMP13</p> <p>Background: Plays a role in the degradation of extracellular matrix proteins including fibrillar collagen, fibronectin, TNC and ACAN. Cleaves triple helical collagens, including type I, type II and type III collagen, but has the highest activity with soluble type II collagen. Can also degrade collagen type IV, type XIV and type X. May also function by activating or degrading key regulatory proteins, such as TGFB1 and CTGF. Plays a role in wound healing, tissue remodeling, cartilage degradation, bone development, bone mineralization and ossification. Required for normal embryonic bone development and ossification. Plays a role in the healing of bone fractures via endochondral ossification. Plays a role in wound healing, probably by a mechanism that involves proteolytic activation of TGFB1 and degradation of CTGF. Plays a role in keratinocyte migration during wound healing. May play a role in cell migration and in tumor cell invasion.</p>
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Gene ID:	4322
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UniProt:	<a href="#">P45452</a>
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## Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500
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Restrictions:	For Research Use only
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## Handling

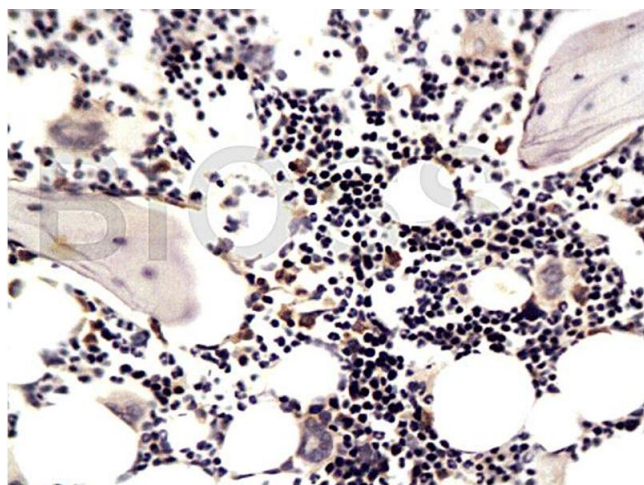
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

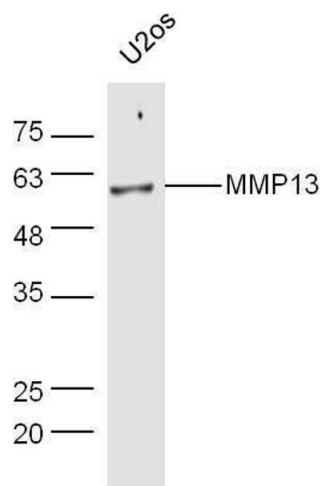
- Product cited in:
- Xiao, Li, Zhang, Xu, Zhang: "Pannexin 3 activates P2X7 receptor to mediate inflammation and cartilage matrix degradation in temporomandibular joint osteoarthritis." in: **Cell biology international**, Vol. 47, Issue 7, pp. 1183-1197, (2023) ([PubMed](#)).
- Cao, Bai, Liu, Dou, Li, Xiang, Zhao, Xie, Xiang, Dong: "Hypertrophic differentiation of mesenchymal stem cells is suppressed by xanthotoxin via the p38-MAPK/HDAC4 pathway." in: **Molecular medicine reports**, Vol. 16, Issue 3, pp. 2740-2746, (2018) ([PubMed](#)).
- Yang, Lu, Guo: "Platelet-rich plasma protects rat chondrocytes from interleukin-1 $\beta$ -induced apoptosis." in: **Molecular medicine reports**, Vol. 14, Issue 5, pp. 4075-4082, (2016) ([PubMed](#)).
- Ou, Wang, Liu, Li, Yeh, Qi, Chang: "Tumor microenvironment B cells increase bladder cancer metastasis via modulation of the IL-8/androgen receptor (AR)/MMPs signals." in: **Oncotarget**, Vol. 6, Issue 28, pp. 26065-78, (2016) ([PubMed](#)).
- Ma, Wu, Wang, Wang, Wu, Zhu, Zhao: "Effects of chronic sleep deprivation on the extracellular signal-regulated kinase pathway in the temporomandibular joint of rats." in: **PLoS ONE**, Vol. 9, Issue 9, pp. e107544, (2014) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

## Images



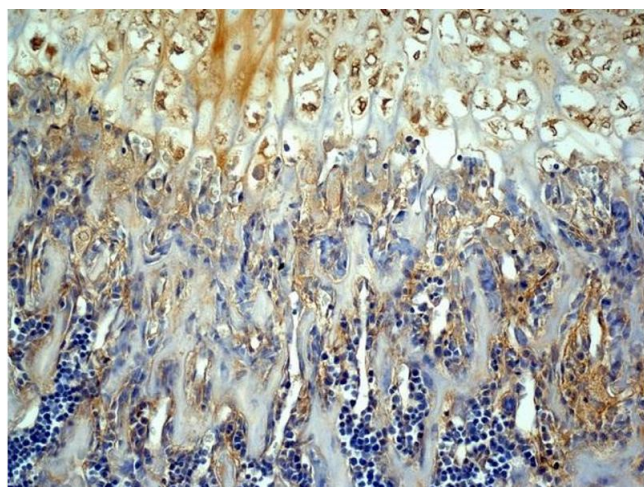
### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat articular cartilage labeled with Anti-MMP-13 Polyclonal Antibody (ABIN670341), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



#### Western Blotting

**Image 2.** Human U2os lysates probed with Rabbit Anti-MMP13 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.



#### Immunohistochemistry

**Image 3.** Generously provided by Markus Linder from Medical University Vienna as part of the Bioss Discovery Program. Formalin-fixed, paraffin embedded, and decalcified in EDTA mouse bone labeled with Anti-MMP-13 Polyclonal Antibody, Unconjugated (ABIN670341) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN670341.