

## Anti-MMP13 Rabbit Monoclonal Antibody Catalog # ABO13720

### Specification

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#### Anti-MMP13 Rabbit Monoclonal Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P45452</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-MMP13 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse.

#### Anti-MMP13 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 4322

#### Other Names

Collagenase 3, 3.4.24.-, Matrix metalloproteinase-13, MMP-13, MMP13

#### Calculated MW

53820 MW KDa

#### Application Details

WB 1:500-1:2000

#### Subcellular Localization

Secreted, extracellular space, extracellular matrix. Secreted.

#### Tissue Specificity

Detected in fetal cartilage and calvaria, in chondrocytes of hypertrophic cartilage in vertebrae and in the dorsal end of ribs undergoing ossification, as well as in osteoblasts and periosteal cells below the inner periosteal region of ossified ribs. Detected in chondrocytes from in joint cartilage that have been treated with TNF and IL1B, but not in untreated chondrocytes. Detected in T lymphocytes. Detected in breast carcinoma tissue..

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human MMP13

#### Purification

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-MMP13 Rabbit Monoclonal Antibody - Protein Information****Name** MMP13**Function**

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 CCN2. 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 CCN2. Plays a role in keratinocyte migration during wound healing. May play a role in cell migration and in tumor cell invasion.

**Cellular Location**

Secreted, extracellular space, extracellular matrix. Secreted

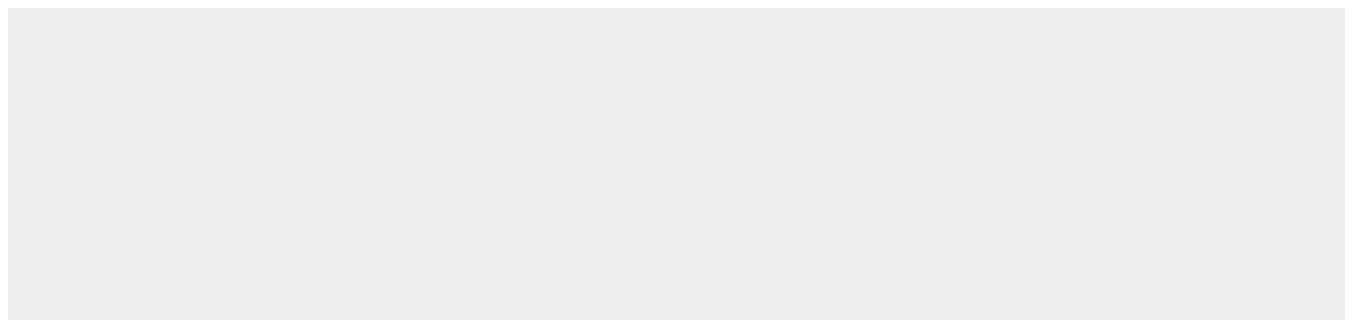
**Tissue Location**

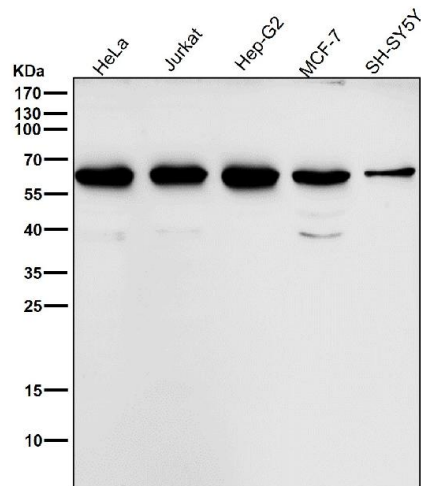
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**Anti-MMP13 Rabbit Monoclonal Antibody - Protocols**

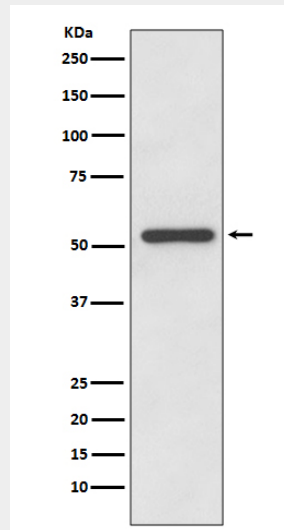
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-MMP13 Rabbit Monoclonal Antibody - Images**



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Western blot analysis of MMP13 expression in HeLa cell lysate.