

**MMP-13 Blocking Peptide**  
**Catalog # PBV10220b****Specification**

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**MMP-13 Blocking Peptide - Product Information**

Primary Accession	<a href="#">P23097</a>
Gene ID	<b>171052</b>
Calculated MW	<b>53375</b>

**MMP-13 Blocking Peptide - Additional Information**

Application & Usage	<b>The peptide is used for blocking the antibody activity of Anti-MMP-13. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.</b>
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**Other Names**

Collagenase 3, 3.4.24.-, Matrix metalloproteinase-13, MMP-13, UMRCASE, Mmp13

**Target/Specificity**

MMP-13

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

MMP-13 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**MMP-13 Blocking Peptide - 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 (By similarity).

**Cellular Location**

Secreted, extracellular space, extracellular matrix. Secreted

**MMP-13 Blocking Peptide - 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](#)

**MMP-13 Blocking Peptide - Images**