

MMP-13 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10390**Specification**

MMP-13 Antibody - Product Information

Application	WB
Primary Accession	P23097
Reactivity	Human, Mouse, Rat, Bovine, Horse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53375

MMP-13 Antibody - Additional Information

Application & Usage	Western blotting (0.5-4 µg/ml), immunoprecipitation and Immunohistochemistry (works with paraffin imbedded sections). However, the optimal concentrations should be determined individually. The antibody recognizes the proenzyme (~60 kDa) and the cleaved fragments (34 kDa and 48 kDa) of MMP-13. Reactivity to other species has not been tested.
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Other Names

MMP13 , CLG3 , Collagenase 3 , Matrix metalloproteinase 13

Target/Specificity

MMP-13

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

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

MMP-13 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 (By similarity).

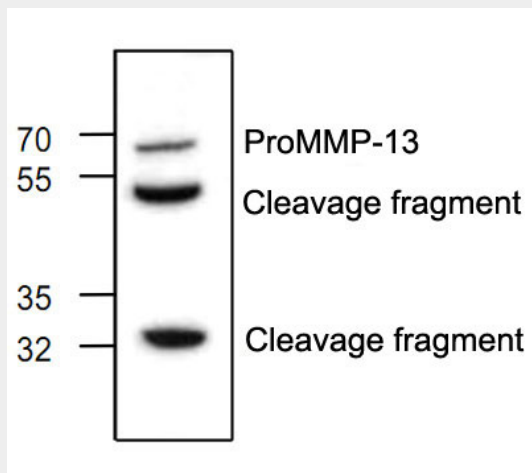
Cellular Location

Secreted, extracellular space, extracellular matrix. Secreted

MMP-13 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](#)

MMP-13 Antibody - Images

Western blot analysis of MMP-13 expression with Jurkat cell lysate.

MMP-13 Antibody - Background

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-13 (also designated collagenase-3) is produced by breast carcinomas and degrades collagen type I, II, III.