10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MMP13 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10394

Specification

MMP13 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P45452
Reactivity	**Human, Rabbit, Monkey, Pig, Horse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54kDa KDa**

MMP13 Antibody (Internal) - Additional Information

Gene ID 4322

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

Target/Specificity
Human MMP13. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions
MMP13 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP13 Antibody (Internal) - 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
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

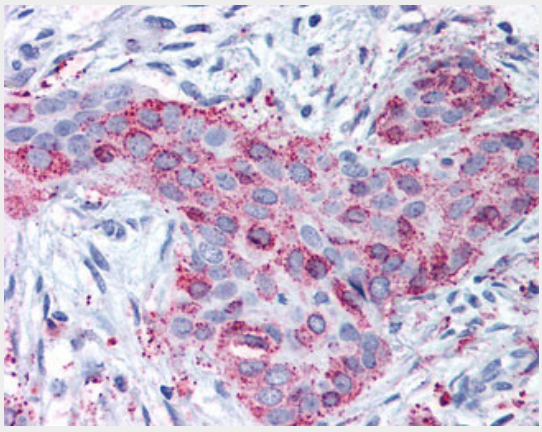
Volume
50 µl

MMP13 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP13 Antibody (Internal) - Images



Anti-MMP13 antibody ALS10394 IHC of human breast carcinoma.

MMP13 Antibody (Internal) - 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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MMP13 Antibody (Internal) - References

Freije J.M.P.,et al.J. Biol. Chem. 269:16766-16773(1994).
Willmroth F.,et al.Immunobiology 198:375-384(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Knaeuper V.,et al.J. Biol. Chem. 271:1544-1550(1996).
Knaeuper V.,et al.J. Biol. Chem. 271:17124-17131(1996).