



## Mouse Monoclonal Antibody **MMP13** conjugated to Sepharose Beads

CatalogNo: **ANT8096-S**

Size 200ul

Storage Store at 4 °C for frequent use

### Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

### **MMP13 (ANT0061R) Rabbit mAb**

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

#### Host Species

- Rabbit
- Human, Mouse,

#### Reactivity

- WB, IHC, IF, IP, ELISA

#### Applications

#### MW

- 60kD (Calculated)
- IgG, Kappa
- 60kD (Observed)

#### Isotype

## **Recommended Dilution Ratios**

IP

### **Basic Information**

#### Clonality

Monoclonal

**Immunogen Information** Specificity

Endogenous

Gene name      MMP13  
Protein Name    Collagenase 3

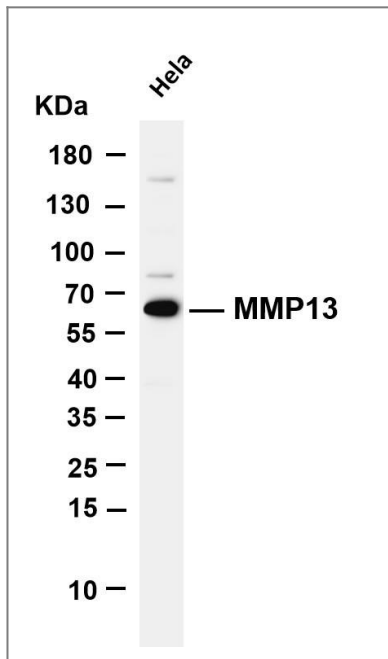
Organism	Gene ID	UniProt ID
Human	<a href="#">4322</a> ;	<a href="#">P45452</a> ;
Mouse		<a href="#">P33435</a> ;

Cellular      Secreted  
Localization

**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.

**Function** cofactor: Binds 2 zinc ions per subunit., cofactor: Binds 4 calcium ions per subunit., Disease: Defects in MMP13 are the cause of spondyloepimetaphyseal dysplasia type 2 (SEMD2) [MIM:602111]; also known as spondyloepimetaphyseal dysplasia type Missouri. SEMDs are a heterogeneous group of skeletal disorders characterized by defective growth and modeling of the spine and long bones. The SEMDs are distinguished from the spondylometaphyseal dysplasias and the spondyloepiphyseal dysplasias by the combined involvement of the epiphyses and metaphyses. The 3 disorders have malformations of the vertebrae in common., Domain: The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme., Function: Degrades collagen type I. Does not act on gelatin or casein. Could have a role in tumoral process., similarity: Belongs to the peptidase M10A family., similarity: Contains 4 hemopexin-like domains., tissue specificity: Seems to be specific to breast carcinomas.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MMP13 (ANT0061R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Predicted band size: 60kDa Observed band size: 60kDa

Please scan the QR code to access additional product information:

**MMP13 (ANT0061R)**  
**Rabbit mAb**

For Research use only, not for diagnostics and clinical use  
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