

Anti-MMP-8 Antibody
Catalog # ABO12413**Specification**

Anti-MMP-8 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	O70138
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Neutrophil collagenase(MMP8) detection. Tested with WB, IHC-P, ELISA in Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MMP-8 Antibody - Additional Information

Gene ID 17394

Other Names

Neutrophil collagenase, 3.4.24.34, Collagenase 2, Matrix metalloproteinase-8, MMP-8, Mmp8

Calculated MW

53126 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat

ELISA , 0.1-0.5 µg/ml, Mouse, -
Western blot, 0.1-0.5 µg/ml, Mouse, Rat

Subcellular Localization

Cytoplasmic granule. Secreted, extracellular space, extracellular matrix. Stored in intracellular granules and released during inflammatory conditions.

Tissue Specificity

Neutrophils. Expressed in uterus. Low levels in kidney and muscle.

Protein Name

Neutrophil collagenase

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of mouse MMP-8 (120-157aa HTPQLSRAEVKTAIEKAFHVWSVASPLTFTEILQGEAD), different from the related human sequence by eleven amino acids, and from the related rat sequence by nine amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MMP-8 Antibody - Protein Information

Name Mmp8

Function

Can degrade fibrillar type I, II, and III collagens. May play a role in the degradation of collagen fibers during uterine involution.

Cellular Location

Cytoplasmic granule. Secreted, extracellular space, extracellular matrix. Note=Stored in intracellular granules and released during inflammatory conditions

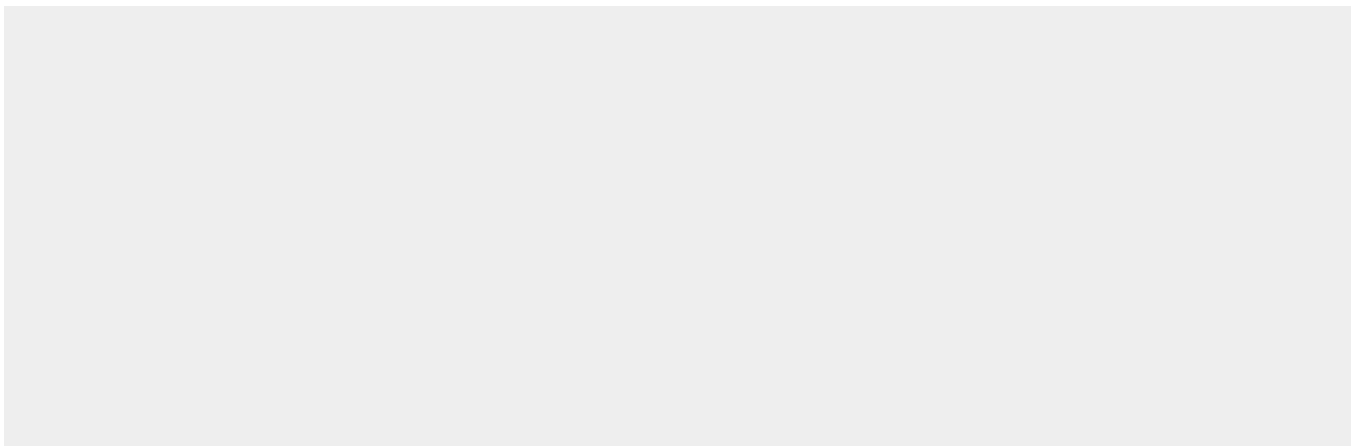
Tissue Location

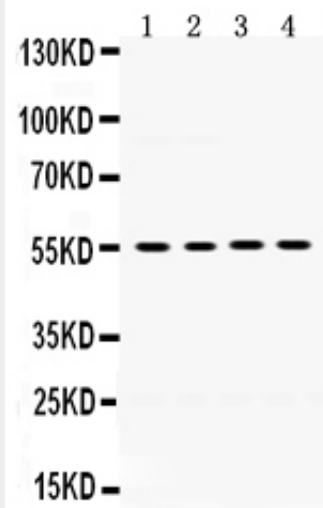
Neutrophils. Expressed in uterus. Low levels in kidney and muscle

Anti-MMP-8 Antibody - Protocols

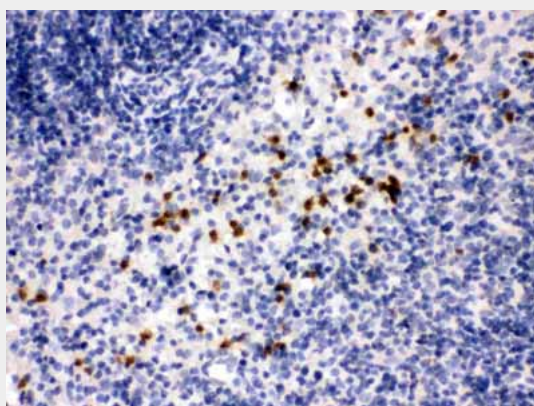
Provided below are standard protocols that you may find useful for product applications.

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

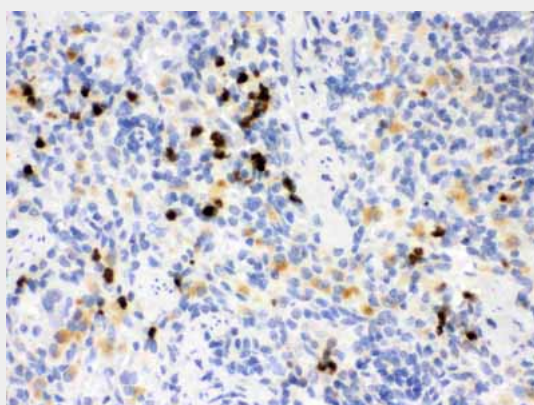
Anti-MMP-8 Antibody - Images



Anti- MMP-8 Picoband antibody, ABO12413, Western blottingAll lanes: Anti MMP-8 (ABO12413) at 0.5ug/mlLane 1: Mouse Testis Tissue Lysate at 50ugLane 2: NIH3T3 Whole Cell Lysate at 40ugLane 3: HEPA Whole Cell Lysate at 40ugLane 4: NRK Whole Cell Lysate at 40ugPredicted bind size: 53KDObserved bind size: 55KD



Anti- MMP-8 Picoband antibody, ABO12413,IHC(P)IHC(P): Mouse Spleen Tissue



Anti- MMP-8 Picoband antibody, ABO12413,IHC(P)IHC(P): Rat Spleen Tissue

Anti-MMP-8 Antibody - Background

MMP8 (Matrix metalloproteinase 8) is a member of the family of matrix metalloproteinases. It is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8 is mapped to 11q21-q22. MMP8 is an enzyme that degrades

fibrillar collagens imparting strength to the fetal membranes, is expressed by leukocytes and chorionic cytotrophoblast cells. The enzyme exhibits 58% homology to human fibroblast collagenase and has the same domain structure. It consists of a 20-residue signal peptide, and an 80-residue propeptide that is lost on autolytic activation by cleavage of an M-L bond. MMP8 was found to possess 57% identity with the deduced protein sequence for fibroblast collagenase with 72% chemical similarity. Matrix metalloproteinases (MMPs) have fundamental roles in tumor progression, but most clinical trials with MMP inhibitors have not shown improvements in individuals with cancer. MMP8 has a paradoxical protective role in cancer and provides a genetic model to evaluate the molecular basis of gender differences in cancer susceptibility.