10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-MMP-8 Antibody
Catalog # ABO12412

Specification

Anti-MMP-8 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P22894
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

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

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

Anti-MMP-8 Antibody - Additional Information

Gene ID 4317

Other Names
Neutrophil collagenase, 3.4.24.34, Matrix metalloproteinase-8, MMP-8, PMNL collagenase, PMNL-CL, MMP8, CLG1

Calculated MW
53412 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

ELISA , 0.1-0.5 µg/ml, Human, -
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Cytoplasmic granule. Secreted, extracellular space, extracellular matrix . Stored in intracellular granules.

Tissue Specificity
Neutrophils.

Protein Name
Neutrophil collagenase

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human MMP-8 (119-153aa NYTPQLSEAEVERAIKDAFELWSVASPLIFTRISQ), different from the related mouse sequence by eleven

amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, 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

Synonyms CLG1

Function
Can degrade fibrillar type I, II, and III collagens.

Cellular Location
Cytoplasmic granule. Secreted, extracellular space, extracellular matrix. Note=Stored in intracellular granules

Tissue Location
Neutrophils.

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 Cytomety
- Cell Culture

Anti-MMP-8 Antibody - Images

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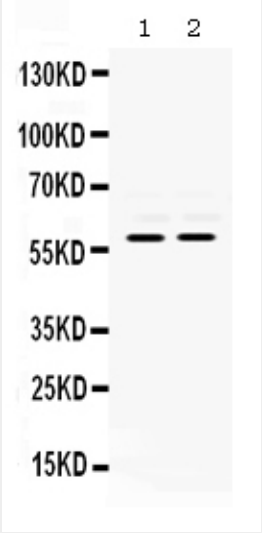
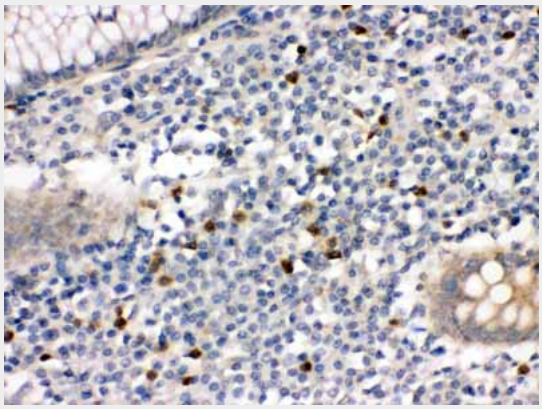


Anti- MMP-8 Picoband antibody, ABO12412, Western blottingAll lanes: Anti MMP-8 (ABO12412) at 0.5ug/mlLane 1: K562 Whole Cell Lysate at 40ugLane 2: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 53KDObserved bind size: 60KD



Anti- MMP-8 Picoband antibody, ABO12412,IHC(P)IHC(P): Human Appendicitis 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.