

Anti-MMP-8 Antibody

Catalog # ABO12412

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.

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
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.
Source	Eukaryota
Protein Name	Neutrophil collagenase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 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.

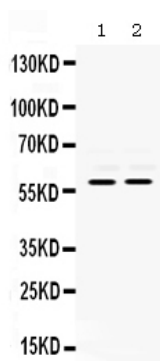
Protein Information

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.

Background

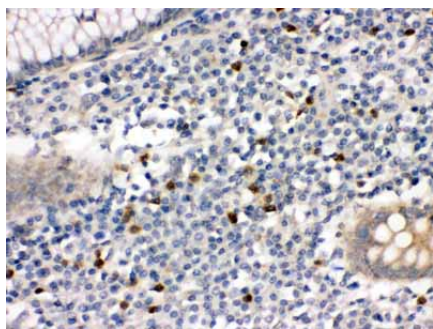
MMP8 (Matrix metalloproteinase 8) is a member of the family of matrix metalloproteinases. It is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8 is mapped to 11q21-q22. MMP8 is an enzyme that degrades fibrillar collagens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

Images



Anti- MMP-8 Picoband antibody, ABO12412, Western blotting
All lanes: Anti MMP-8 (ABO12412) at 0.5ug/ml
Lane 1: K562 Whole Cell Lysate at 40ug
Lane 2: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 53KD
Observed bind size: 60KD

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



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