

Anti-MMP-8 Antibody

Catalog # ABO12413

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.

Additional Information

Gene ID	17394
Other Names	Neutrophil collagenase, 3.4.24.34, Collagenase 2, Matrix metalloproteinase-8, MMP-8, Mmp8
Calculated MW	53126
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Mouse, Rat, By Heat ELISA , 0.1-0.5 μ g/ml, Mouse, - Western blot, 0.1-0.5 μ g/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.
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 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 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.

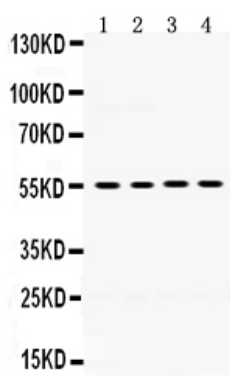
Protein Information

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

Background

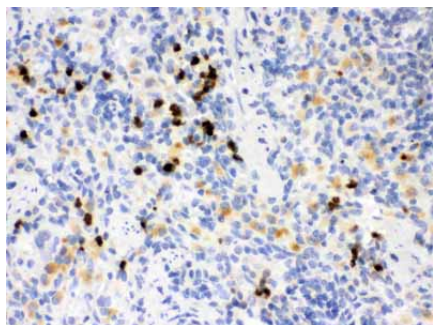
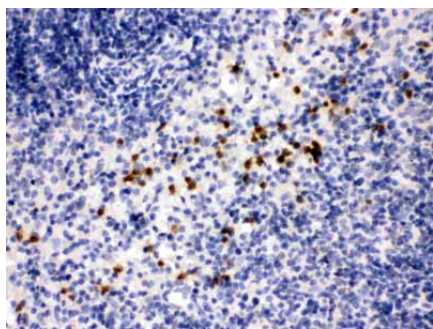
MMP8 (Matrix metalloproteinase 8) is a member of the family of matrix metalloproteinases. It is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8 is mapped to 11q21-q22. MMP8 is an enzyme that degrades fibrillar collagens 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, ABO12413, Western blotting
All lanes: Anti MMP-8 (ABO12413) at 0.5ug/ml
Lane 1: Mouse Testis Tissue Lysate at 50ug
Lane 2: NIH3T3 Whole Cell Lysate at 40ug
Lane 3: HEPA Whole Cell Lysate at 40ug
Lane 4: NRK Whole Cell Lysate at 40ug
Predicted bind size: 53KD
Observed 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.