

Datasheet for ABIN3043882
anti-MMP8 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	MMP8
Binding Specificity:	AA 119-153, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Neutrophil collagenase(MMP8) detection. Tested with WB, IHC-P, ELISA in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human MMP-8 (119-153aa NYTPQLSEAEVERAIKDFAFELWSVASPLIFTRISQ), different from the related mouse sequence by eleven amino acids.
Sequence:	NYTPQLSEAE VERAIKDAFE LWSVASPLIF TRISQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Neutrophil collagenase(MMP8) detection. Tested with WB, IHC-P, ELISA in Human. Gene Name: matrix metalloproteinase 8 (neutrophil collagenase)

Product Details

Protein Name: Neutrophil collagenase

Purification: Immunogen affinity purified.

Target Details

Target: MMP8

Alternative Name: MMP8 ([MMP8 Products](#))

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.

Synonyms: CLG 1 antibody|CLG1 antibody|Collagenase 1 antibody|Collagenase 1 neutrophil antibody|HNC antibody|Matrix metalloproteinase 8 (neutrophil collagenase) antibody|Matrix metalloproteinase 8 antibody|Matrix metalloproteinase-8 antibody|MMP 8 antibody|MMP-8 antibody|Mmp8 antibody| MMP8_HUMAN antibody|Neutrophil collagenase antibody|PMNL CL antibody|PMNL collagenase antibody|PMNL-CL antibody|PMNLCL antibody

Gene ID: 4317

UniProt: [P22894](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Application Details

ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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.

Publications

Product cited in: Liu, Li, Liang, Li, Jiang, Chu, Yang: "Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 4, pp. 1867-1876, (2018) ([PubMed](#)).

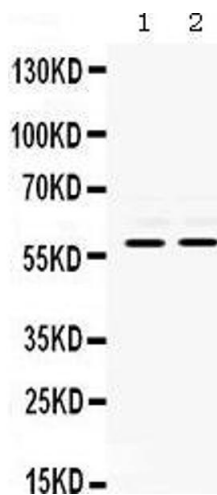
Li, Li, Zeng, Liu, Yang: "H₂S improves renal fibrosis in STZ-induced diabetic rats by ameliorating TGF-β1 expression." in: **Renal failure**, Vol. 39, Issue 1, pp. 265-272, (2017) ([PubMed](#)).

Gao, Tang, He, Liu, Mao, Ji, Lin, Wu: "Glycyrrhizic acid alleviates bleomycin-induced pulmonary

fibrosis in rats." in: **Frontiers in pharmacology**, Vol. 6, pp. 215, (2015) ([PubMed](#)).

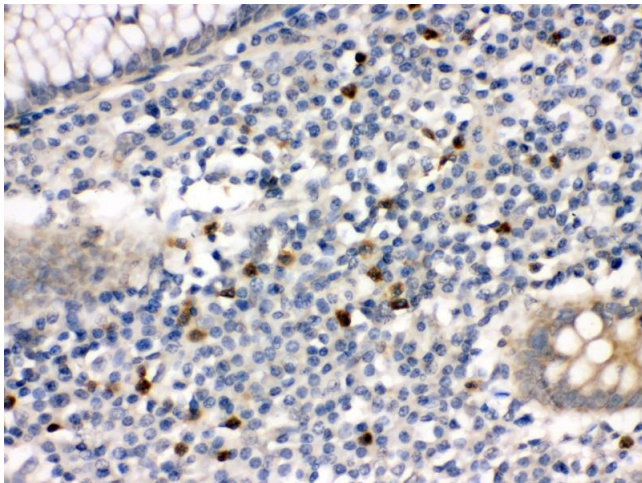
Zhong, Wang, Jian: "Expression of matrix metalloproteinases-8 and -9 and their tissue inhibitor in the condyles of diabetic rats with mandibular advancement." in: **Experimental and therapeutic medicine**, Vol. 8, Issue 5, pp. 1357-1364, (2014) ([PubMed](#)).

Images



Western Blotting

Image 1. Observed bind size: 60KD



Immunohistochemistry

Image 2. Anti- MMP8 Picoband antibody,IHC(P) IHC(P):
Human Appendicitis Tissue