Datasheet for ABIN3043883

anti-MMP8 antibody (N-Term)

3 Images | 3 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	MMP8
Binding Specificity:	AA 120-157, N-Term
Reactivity:	Mouse, Rat
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 Mouse,Rat.
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.
Sequence:	HTPQLSRAEV KTAIEKAFHV WSVASPLTFT EILQGEAD
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 Mouse,Rat. Gene Name: matrix metallopeptidase 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 metallopeptidase 8 (neutrophil collagenase) antibody|Matrix metalloprotease 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:	17394
UniProt:	O70138

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, 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

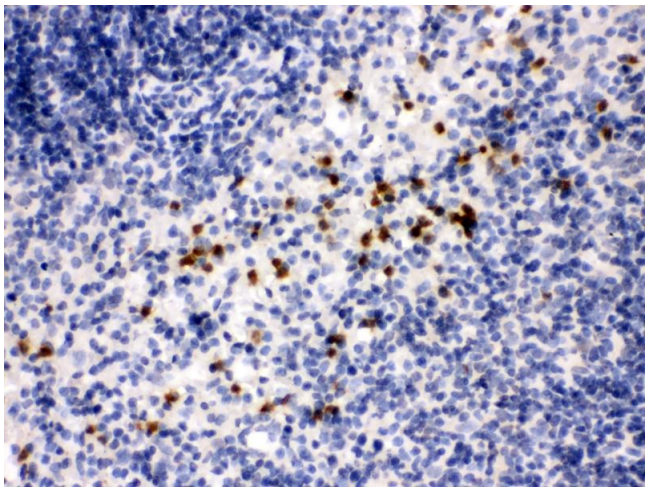
	ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 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.

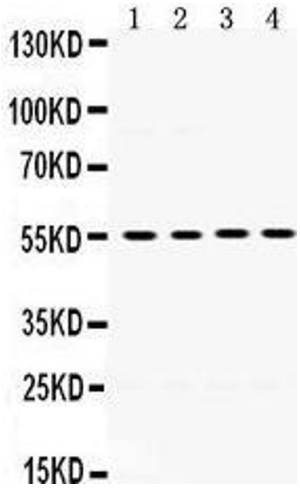
Publications

Product cited in:	Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) (PubMed).



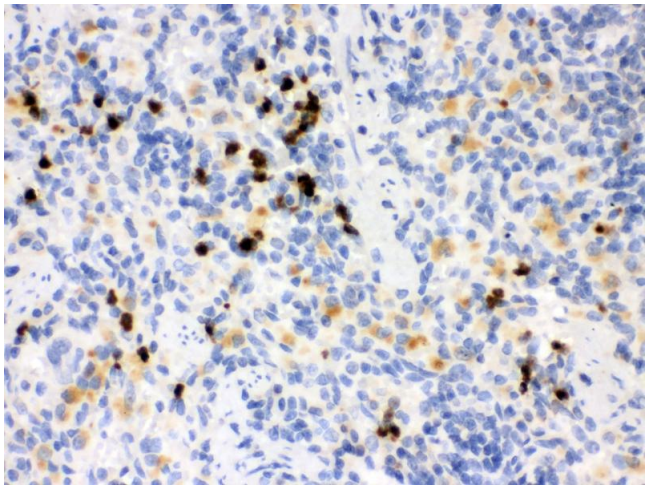
Immunohistochemistry

Image 1. Anti- MMP8 Picoband antibody,IHC(P) IHC(P): Mouse Spleen Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti- MMP8 Picoband antibody,IHC(P) IHC(P): Rat Spleen Tissue

