Datasheet for ABIN736283

anti-MMP8 antibody (AA 241-340)

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Overview

Quantity:	100 µL
Target:	MMP8
Binding Specificity:	AA 241-340
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MMP8
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat
Purification:	Purified by Protein A.

Target Details

Target:	MMP8
Alternative Name:	MMP-8 (MMP8 Products)
Background:	Synonyms: HNC, CLG1, MMP-8, PMNL-CL, Neutrophil collagenase, Matrix metalloproteinase-8,

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Target Details

	PMNL collagenase, MMP8 Background: Matrix Metalloproteinase 8 (MMP8) is also known as neutrophil collagenase and collagenase 2. MMP8 degrades fibrillar collagens types I, II, III, aggrecan, serpins and alpha 2 macroglobulin. All collagenases cleave fibrillar collagens at one specific site resulting in generation of N terminal three quarter and C terminal one quarter fragments, which then denature to gelatin at body temperature. The substrate specificity of collagenases is variable: MMP1 degrades type III collagen more efficiently than type I or type II collagen, whereas MMP8 is more potent in degrading type I collagen than type III or type II collagen. MMP13, in turn degrades type II collagen 6 fold more efficiently than type I and type II collagens and displays almost 50 fold stronger gelatinolytic activity than MMP1 and MMP8. MMP8 is very similar to MMP1, sharing 57 % amino acid identity. Most cell types do not produce MMP8. Until recently, it was thought that MMP8 was produced exclusively by neutrophils, but it has also been detected in other cell types including arthritic chondrocytes and gingival fibroblasts. The human MMP8 gene has the chromosomal location of 11q22.2-22.3. MMP8 is heavily glycosylated, and the zymogen has a mass of 85 Kd. The zymogen is quickly activated to the 64 Kd form, and this breaks down to a cascade of active forms.
Gene ID:	4317
UniProt:	P22894

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

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Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Sîrbulescu, Boehm, Soon, Wilks, Ilieş, Yuan, Maxner, Chronos, Kaittanis, Normandin, El Fakhri, Orgill, Sluder, Poznansky: "Mature B cells accelerate wound healing after acute and chronic diabetic skin lesions." in: **Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society**, Vol. 25, Issue 5, pp. 774-791, (2018) (PubMed).

Oralova, Matalova, Killinger, Knopfova, Smarda, Buchtova: "Osteogenic Potential of the Transcription Factor c-MYB." in: **Calcified tissue international**, Vol. 100, Issue 3, pp. 311-322, (2016) (PubMed).

Zhang, Li, Zhang, Fu, Cui: "Hydrogen sulfide suppresses the expression of MMP-8, MMP-13, and TIMP-1 in left ventricles of rats with cardiac volume overload." in: **Acta pharmacologica Sinica**, Vol. 34, Issue 10, pp. 1301-9, (2013) (PubMed).

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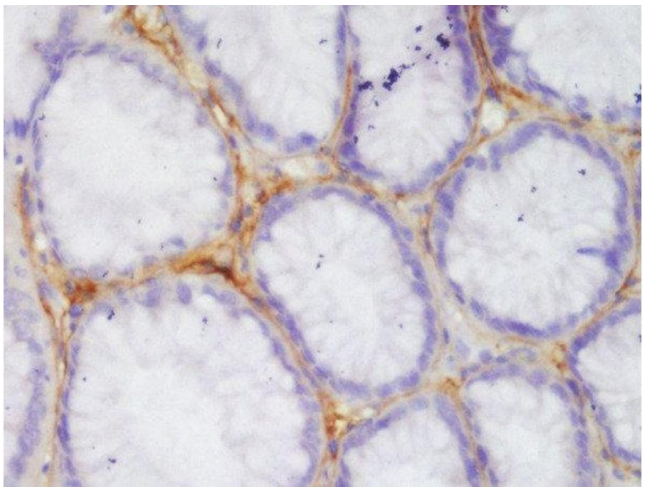

Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded human stomach carcinoma labeled with Rabbit Anti-MMP-8 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

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