MMP-8 Antibody HRP Conjugated

Catalog No: #C03792H

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Description

Product Name	MMP-8 Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-F
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 262-312 467 derived from human MMP8
Conjugates	HRP
Target Name	MMP-8
Other Names	HNC; CLG1; MMP-8; PMNL-CL; Neutrophil collagenase; Matrix metalloproteinase-8; PMNL collagenase; MMP8
Accession No.	Swiss-Prot#P22894NCBI Gene ID4317
Uniprot	P22894
GeneID	4317;
Excitation Emission	N A
Cell Localization	Extracellular, Secreted
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

WB=1:500-2000 IHC-F=1:50-200

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.

Note: This product is for in vitro research use only