



## MMP1 peptide (DAG-P0887)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]
<b>Purity</b>	> 95 % by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Sequence Similarities</b>	Belongs to the peptidase M10A family.Contains 4 hemopexin-like domains.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

### GENE INFORMATION

**Gene Name** [MMP1 matrix metalloproteinase 1 \(interstitial collagenase\) \[ Homo sapiens \(human\) \]](#)

<b>Official Symbol</b>	MMP1
<b>Synonyms</b>	MMP1; matrix metallopeptidase 1 (interstitial collagenase); CLG; CLGN; interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1;
<b>Entrez Gene ID</b>	<a href="#">4312</a>
<b>mRNA Refseq</b>	<a href="#">NM_001145938.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001139410.1</a>
<b>UniProt ID</b>	B4DN15
<b>Chromosome Location</b>	11q22.3
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Degradation of the extracellular matrix, organis
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; zinc ion binding;