



## MMP20 peptide (DAG-P0811)

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. The protein encoded by this gene degrades amelogenin, the major protein component of dental enamel matrix, and thus thought to play a role in tooth enamel formation. A mutation in this gene, which alters the normal splice pattern and results in premature termination of the encoded protein, has been associated with amelogenesis imperfecta. This gene is part of a cluster of MMP genes located on chromosome 11q22.3. [provided by RefSeq, Aug 2011]
<b>Specificity</b>	Expressed specifically in the enamel organ.
<b>Purity</b>	> 95 % by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ELISA
<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	<a href="#">MMP20 matrix metallopeptidase 20 [ Homo sapiens (human) ]</a>
Official Symbol	MMP20
Synonyms	MMP20; matrix metallopeptidase 20; AI2A2; MMP-20; matrix metalloproteinase-20; enamel metalloproteinase; matrix metalloproteinase 20 (enamelysin);
Entrez Gene ID	<a href="#">9313</a>
mRNA Refseq	<a href="#">NM_004771.3</a>
Protein Refseq	<a href="#">NP_004762.2</a>
UniProt ID	O60882
Chromosome Location	11q22.3
Pathway	Assembly of collagen fibrils and other multimeric structures, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Collagen formation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
Function	calcium ion binding; metalloendopeptidase activity; protein binding; zinc ion binding;