



## MMP11 peptide (DAG-P0894)

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. However, the enzyme encoded by this gene is activated intracellularly by furin within the constitutive secretory pathway. Also in contrast to other MMPs, this enzyme cleaves alpha 1-proteinase inhibitor but weakly degrades structural proteins of the extracellular matrix. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Specifically expressed in stromal cells of breast carcinomas.
<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

<b>Gene Name</b>	<a href="#">MMP11 matrix metallopeptidase 11 (stromelysin 3) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	MMP11
<b>Synonyms</b>	MMP11; matrix metallopeptidase 11 (stromelysin 3); ST3; SL-3; STMY3; stromelysin-3; MMP-11; stromelysin III;
<b>Entrez Gene ID</b>	<a href="#">4320</a>
<b>mRNA Refseq</b>	<a href="#">NM_005940.3</a>
<b>Protein Refseq</b>	<a href="#">NP_005931.2</a>
<b>UniProt ID</b>	B3KQS8
<b>Chromosome Location</b>	22q11.23
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; zinc ion binding;