



## MMP15 peptide (DAG-P0900)

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 protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. [provided by RefSeq, Jul 2008] |
| <b>Specificity</b>           | Appeared to be synthesized preferentially in liver, placenta, testis, colon and intestine. Substantial amounts are also detected in pancreas, kidney, lung, heart and skeletal muscle.   |
| <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="#">MMP15 matrix metalloproteinase 15 (membrane-inserted) [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b>     | MMP15  |
| <b>Synonyms</b>            | MMP15; matrix metalloproteinase 15 (membrane-inserted); MTMMP2; SMCP-2; MT2-MMP; matrix metalloproteinase-15; MMP-15; MT2MMP; MT-MMP 2; membrane-type matrix metalloproteinase 2; membrane-type-2 matrix metalloproteinase; matrix metalloproteinase 15 (membrane-inserted);   |
| <b>Entrez Gene ID</b>      | <a href="#">4324</a>   |
| <b>mRNA Refseq</b>         | <a href="#">NM_002428.2</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_002419.1</a>  |
| <b>UniProt ID</b>          | P51511   |
| <b>Chromosome Location</b> | 16q13  |
| <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; enzyme activator activity; metalloendopeptidase activity; protein binding; zinc ion binding;  |