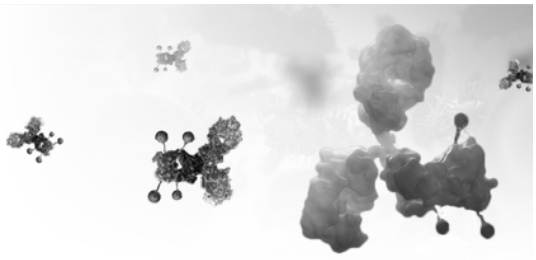

# MMP2 peptide (DAG-P1794)

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

## PRODUCT INFORMATION

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|---|---|
| **Antigen Description** | 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 an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **Specificity** | Produced by normal skin fibroblasts. PEX is expressed in a number of tumors including gliomas, breast and prostate. |
| **Purity** | > 95 % by SDS-PAGE. |
| **Conjugate** | Unconjugated |
| **Applications** | WB, ELISA |
| **Sequence Similarities** | Belongs to the peptidase M10A family.Contains 3 fibronectin type-II domains.Contains 4 hemopexin-like domains. |
| **Format** | Liquid |
| **Buffer** | Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75 |
| **Preservative** | None |
| **Storage** | 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, |

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|---|---|
| | 150mM Sodium chloride, pH 6.75 |

# GENE INFORMATION

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|---|---|
| **Gene Name** | MMP2 matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) [ Homo sapiens (human) ] |
| **Official Symbol** | MMP2 |
| **Synonyms** | MMP2; matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); CLG4; MONA; CLG4A; TBE-1; MMP-II; 72 kDa type IV collagenase; MMP-2; gelatinase A; 72 kDa gelatinase; collagenase type IV-A; neutrophil gelatinase; matrix metalloproteinase-2; matrix metalloproteinase-II; |
| **Entrez Gene ID** | 4313 |
| **mRNA Refseq** | NM_001127891.1 |
| **Protein Refseq** | NP_001121363.1 |
| **UniProt ID** | P08253 |
| **Chromosome Location** | 16q13-q21 |
| **Pathway** | AGE/RAGE pathway, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Collagen degradation, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific |
| **Function** | metalloendopeptidase activity; protein binding; serine-type endopeptidase activity; zinc ion binding; |

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