



Human MMP14 peptide (DAG-P1743)

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

PRODUCT INFORMATION

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. 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. This protein activates MMP2 protein, and this activity may be involved in tumor invasion. [provided by RefSeq, Jul 2008]
Specificity	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MMP14 matrix metalloproteinase 14 (membrane-inserted) [Homo sapiens (human)]
Official Symbol	MMP14

Synonyms	MMP14; matrix metalloproteinase 14 (membrane-inserted); MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1; matrix metalloproteinase-14; membrane type 1 metalloprotease; membrane-type-1 matrix metalloproteinase;
Entrez Gene ID	4323
mRNA Refseq	NM_004995.3
Protein Refseq	NP_004986.1
UniProt ID	P50281
Chromosome Location	14q11.2
Pathway	AGE/RAGE pathway, organism-specific biosystem; 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; GnRH signaling pathway, organism-specific biosystem; GnRH signaling pathway, conserved biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Matrix Metalloproteinases, or
Function	calcium ion binding; integrin binding; metalloendopeptidase activity; peptidase activator activity; protein binding; sequence-specific DNA binding transcription factor activity; zinc ion binding;