



Anti-MMP7 monoclonal antibody, clone 222540 (DCABY-3970)

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

PRODUCT INFORMATION

Antigen Description	The matrix metalloproteinases (MMPs) consist of 24 known human zinc proteases with essential roles in breaking down components of the extracellular matrix (ECM). Additional MMP substrates include cytokines, chemokines, growth factors and binding proteins, cell/cell adhesion molecules, and other proteinases. With a few exceptions, MMPs share common structural motifs including a pro-peptide domain, a catalytic domain, a hinge region, and a hemopexin-like domain. Synthesized as pro-enzymes, most MMPs are secreted before conversion to their active form. MMP activities are modulated on several levels including transcription, pro-enzyme activation, or by their endogenous inhibitors, tissue inhibitors of metalloproteinases (TIMPs). A subset of MMPs are associated with membranes and designated as membrane-type metalloproteinases (MT-MMP).
Specificity	Detectshuman MMP-7 inELISAs. In sandwich immunoassays, no cross-reactivity or interferencewith recombinant human(rh)MMP-1, 2, 3, 8, 9, 10, 13, recombinant mouse MMP-7, 9, rhTIMP-1, 2, 3, or 4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MMP-7. Leu18-Lys267 (Ala230del) Accession Number NP_002414
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	222540
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated

Applications	ELISA Capture (Matched Pair)
Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	MMP7 matrix metalloproteinase 7 (matrilysin, uterine) [Homo sapiens (human)]
Official Symbol	MMP7
Synonyms	MMP7; matrix metalloproteinase 7 (matrilysin, uterine); MMP-7; MPSL1; PUMP-1; matrilysin; matrin; pump-1 protease; uterine matrilysin; uterine metalloproteinase; matrix metalloproteinase-7; matrix metalloproteinase 7 (matrilysin, uterine);
Entrez Gene ID	4316
Protein Refseq	NP_002414
UniProt ID	P09237
Chromosome Location	11q21-q22
Pathway	AGE/RAGE pathway; Activation of Matrix Metalloproteinases; Alpha6-Beta4 Integrin Signaling Pathway; Assembly of collagen fibrils and other multimeric structures; Collagen degradation; Collagen formation; Degradation of the extracellular matrix; Extracellu
Function	metalloendopeptidase activity; zinc ion binding;