



Anti-MMP7 polyclonal antibody [Biotin] (DPABY-415)

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	Detects human MMP-7 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) MMP-1, -2, -3, -4, -8, -9, -10, -13, recombinant mouse (rm) MMP-7, rmMMP-9, and rhTIMP-1, -2, -3, and -4 is observed.
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human MMP-7
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid

Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
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;