



Product Information Sheet

Polyclonal Anti-Matrix Metalloproteinase 8, **MMP8** (Magnetic Bead Conjugate)

Catalogue No. PA1207-M

Immunogen

Lot No. 09B01

A synthetic peptide corresponding to a sequence at the N-terminal of human MMP8, different to the related rat sequence by three amino acids.

Ig type: rabbit IgG1

Purification

Size: 100µg/Vial

Immunogen affinity purified

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Recommended application

Immunoprecipitation(IP)

Description:

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic

BACKGROUND

MMP8 (Matrix metalloproteinase 8) is a member of the family of matrix metalloproteinases. It is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8 was mapped to 11q21-q22. MMP8 is an enzyme that degrades fibrillar collagens imparting strength to the fetal membranes, is expressed by leukocytes and chorionic cytotrophoblast cells.¹ The enzyme exhibits 58% homology to human fibroblast collagenase and has the same domain structure. It consists of a 20-residue signal peptide, and an 80-residue propeptide that is lost on autolytic activation by cleavage of an M-L bond.² MMP8 was found to possess 57% identity with the deduced protein sequence for fibroblast collagenase with 72% chemical similarity.³ Matrix metalloproteinases (MMPs) have fundamental roles in tumor progression, but most clinical trials with MMP inhibitors have not shown improvements in individuals with cancer. MMP8 has a paradoxical protective role in cancer and provides a genetic model to evaluate the molecular basis of gender differences in cancer susceptibility.⁴

REFERENCE

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3. Hasty, K. A.; Pourmotabbed, T. F.; Goldberg, G. I.; Thompson, J. P.; Spinella, D. G.; Stevens, R. M.; Mainardi, C. L. : Human neutrophil collagenase: a distinct gene product with homology to other matrix metalloproteinases. *J. Biol. Chem.* 265: 11421-11424, 1990.
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