

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MMP-10 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) MMP-1, rhMMP-2, rhMMP-3, rhMMP-7, rhMMP-8, rhMMP-9, rhMMP-12, rhMMP-13, rhMMP-14, rhMMP-16, rhTIMP-1, rhTIMP-2, rhTIMP-3, and rhTIMP-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MMP-10 (R&D Systems, Catalog # 910-MP) Tyr18-Cys476 Accession # P09238
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human MMP-10 (Catalog # 910-MP)
Human MMP-10 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human MMP-10 Antibody (Catalog # MAB9103)
ELISA Detection	0.1-0.4 µg/mL	Human MMP-10 Biotinylated Antibody (Catalog # BAF910)
Standard		Recombinant Human MMP-10 (Catalog # 910-MP)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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.

BACKGROUND

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-10 (stromelysin 2) degrades a broad range of substrates including gelatin, collagen types III, IV and V, fibronectin, aggrecan, and pig cartilage proteoglycan. MMP-10 can activate other MMPs such as MMP-1 and MMP-8. MMP-10 is expressed in keratinocytes, T cells, menstrual endometrium and a few tumor samples. Structurally, MMP-10 may be divided into four distinct domains: a pro-domain which is cleaved upon activation, a catalytic domain containing the zinc binding site; a short linker region, and a carboxyl terminal hemopexin-like domain.