

Human MMP-8 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF908

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human MMP-8 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) rhMMP-1, rhMMP-2, rhMMP-9, rhMMP-13, rhMMP-7, rhMMP-10 and rhMMP-12 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MMP-8 Phe21-Gly467 Accession # AAZ38714
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

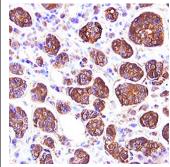
APPLICATIONS

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-8 (Catalog # 908-MP)
Immunohistochemistry	5-15 μg/mL	See Below
Human MMP-8 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Human MMP-8 Antibody (Catalog # MAB908)
ELISA Detection	0.1 - 0.4 μg/mL	Human MMP-8 Biotinylated Antibody (Catalog # BAF908)
Standard		Recombinant Human MMP-8 (Catalog # 908-MP)

DATA

Immunohistochemistry



MMP-8 in Human Breast Cancer Tissue. MMP-8 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Goat Anti-Human MMP-8 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF908) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in ductal cells. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

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	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. 	

BACKGROUND

Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-8 (neutrophil collagenase) is expressed in neutrophils, where it is stored in specific granules. MMP-8 release from the neutrophils is stimulated by various factors such as interleukins 1 and 8, TNF- α and GM-CSF. MMP-8 is capable of cleaving types I, II and III triple-helical collagen, gelatin peptides, fibronectin, proteoglycans, aggrecan, serpins, β -casein and peptides such as angiotensin and substance P. In addition to its function in phagocytosis, MMP-8 has a high capacity for infiltrating connective tissue, and is implicated in the breakdown of the extracellular matrix in diseases such as rheumatoid arthritis. Structurally, MMP-8 consists of several domains: a pro-domain that is cleaved upon activation, a catalytic domain containing the zinc-binding site, a short hinge region and a hemopexin-like domain. MMP-8 is heavily glycosylated.

Rev. 2/6/2018 Page 1 of 1

