

Human MMP-8 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF908

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human MMP-8 in direct ELISAs and Western blots. In direct ELISAs, less than 25% cross-reactivity with recombinant mouse MMI and recombinant rat MMP-8 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MMP-8 Phe21-Giy467 Accession # AAZ38714	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

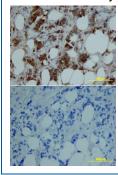
APPLICATIONS

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 Western Blot Standard (Catalog # WBC017)
Immunocytochemistry	5-15 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human MMP-8 (Catalog # 908-MP), see our available Western blot detection antibodies

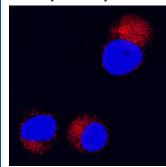
DATA

Immunohistochemistry



MMP-8 in Human Breast. MMP-8 was detected in immersion fixed paraffin-embedded sections of human breast array using Goat Anti-Human MMP-8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF908) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunocytochemistry



MMP-8 in Jurkat Human Cell Line. MMP-8 was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Goat Anti-Human MMP-8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF908) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # ML001) and counterstained with DAPI(blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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. 10/14/2020 Page 1 of 1

