

Human Pro-MMP-7 Antibody

Monoclonal Mouse IgG₁ Clone # 6A4 Catalog Number: MAB907

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects recombinant human (rh) Pro-MMP-7 (aa 18-267) in Western blots. In Western blots, no cross-reactivity with rhMMP-1, rhMMP-2, rhMMP-9 or mature rhMMP-7 (aa 95-267) is observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 6A4		
Purification	Protein A or G purified from ascites		
Immunogen	Human MMP-7 synthetic peptide AEYSLFPNSPKWTSKV, Ala93-Val108 Accession # P09237		
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.		

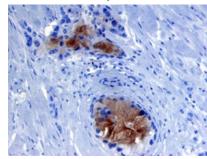
APPLICATIONS

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	1 μg/mL	Recombinant Human MMP-7 Western Blot Standard (Catalog # WBC016)
Immunohistochemistry	8-25 μg/mL	See Below

DATA

Immunohistochemistry



MMP-7 in Human Pancreatic Cancer Tissue. MMP-7 was detected in immersion fixed paraffin-embedded sections of human pancreatic cancer tissue using Human Pro-MMP-7 Monoclonal Antibody (Catalog # MAB907) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Reconstitution Reconstitute at 0.5 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-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and is capable of digesting a large series of proteins of the extracellular matrix including collagen IV and X, gelatin, casein, laminin, aggrecan, entactin, elastin and versican. MMP-7 is implicated in the activation of other proteinases such as plasminogen, MMP-1, MMP-2, and MMP-9. In addition to its roles in connective tissue remodeling and cancer, MMP-7 also regulates intestinal α-defensin activation in innate host defense, releases tumor necrosis factor-α in a model of herniated disc resorption, and cleaves FasL to generate a soluble form in a model of prostate involution. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site.

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