Mouse MMP-7 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2967

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MMP-7 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human MMP-7 is observed, and less than 2% cross-reactivity with recombinant mouse (rm) MMP-2, rmMMP-3, rmMMP-8, and rmMMP-9 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MMP-7 Leu18-Leu264 Accession # AAA99983
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 as a 0.2 μm filtered solution in PBS.

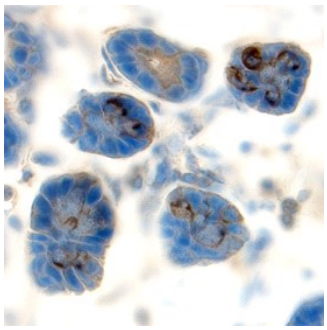
APPLICATIONS

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	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	50 µg/mL	See Below

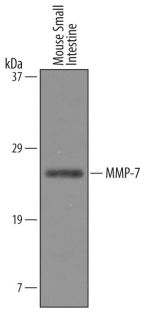
DATA

Immunohistochemistry



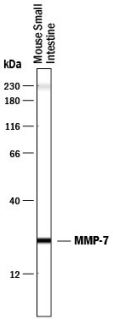
MMP-7 in Mouse Intestine. MMP-7 was detected in perfusion fixed frozen sections of mouse small intestine using Goat Anti-Mouse MMP-7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2967) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of cells in intestinal glands. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

Western Blot



Detection of Mouse MMP-7 by Western Blot. Western blot shows lysates of mouse small intestine tissue. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Mouse MMP-7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2967) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for MMP-7 at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Simple Western



Detection of Mouse MMP-7 by Simple Western™. Simple Western lane view shows lysates of mouse small intestine tissue, loaded at 0.2 mg/mL. A specific band was detected for MMP-7 at approximately 25 kDa (as indicated) using 50 µg/mL of Goat Anti-Mouse MMP-7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2967) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

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.

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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 (1). 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.

References:

1. Woessner, J.F. (2004) in *Handbook of Proteolytic Enzymes,* Barrett, A.J. *et al.* eds. p. 532.

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