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MMP7 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6212a

Specification

MMP7 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P09237
Other Accession	NP_002414
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**117-146**

MMP7 Antibody (Center) - Additional Information

Gene ID 4316

Other Names
Matrilysin, Matrin, Matrix metalloproteinase-7, MMP-7, Pump-1 protease, Uterine metalloproteinase, MMP7, MPSL1, PUMP1

Target/Specificity
This MMP7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-146 amino acids from the Central region of human MMP7.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MMP7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP7 Antibody (Center) - Protein Information

Name MMP7

Synonyms MPSL1, PUMP1

Function Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.

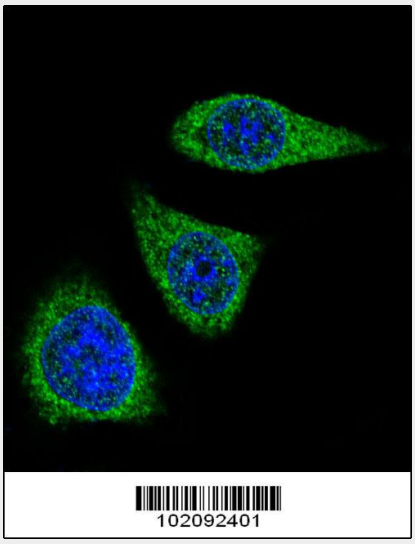
Cellular Location
Secreted, extracellular space, extracellular matrix

MMP7 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP7 Antibody (Center) - Images



Confocal immunofluorescent analysis of MMP7 Antibody (Center) (Cat. #AP6212a) with 293 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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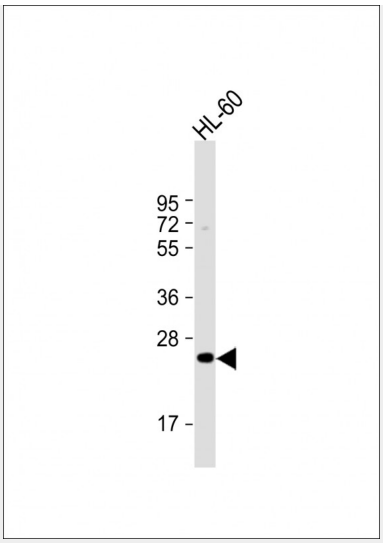
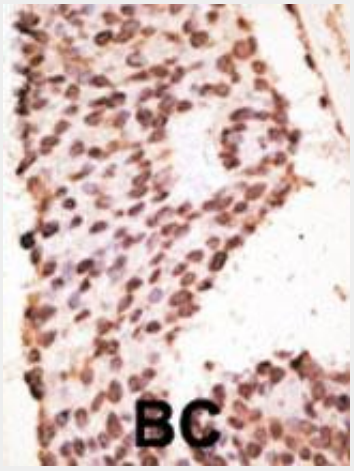


Anti-MMP7 Antibody (A132) at 1:1000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

MMP7 Antibody (Center) - Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP7 degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.

MMP7 Antibody (Center) - References

Filippov, S., et al., J. Exp. Med. 198(6):925-935 (2003). Rivat, C., et al., FASEB J. 17(12):1721-1723 (2003). Fu, X., et al., J. Biol. Chem. 278(31):28403-28409 (2003). McGuire, J.K., et al., Am. J. Pathol.

162(6):1831-1843 (2003). Sumi, T., et al., Oncol. Rep. 10(2):345-349 (2003).

MMP7 Antibody (Center) - Citations

- AGEs-Induced Calcification and Apoptosis in Human Vascular Smooth Muscle Cells Is Reversed by Inhibition of Autophagy