

# MMP7 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6212a

## Product Information

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<b>Application</b>	IHC-P, IF, WB, E
<b>Primary Accession</b>	<a href="#">P09237</a>
<b>Other Accession</b>	<a href="#">NP_002414</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB2092
<b>Calculated MW</b>	29677
<b>Antigen Region</b>	117-146

## Additional Information

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<b>Gene ID</b>	4316
<b>Other Names</b>	Matrilysin, Matrin, Matrix metalloproteinase-7, MMP-7, Pump-1 protease, Uterine metalloproteinase, MMP7, MPSL1, PUMP1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	MMP7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MMP7
<b>Synonyms</b>	MPSL1, PUMP1

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

**Cellular Location** Secreted, extracellular space, extracellular matrix

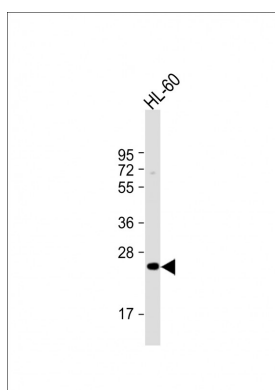
## Background

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.

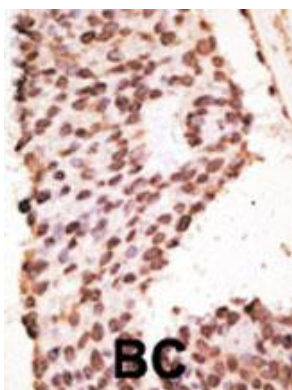
## References

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).

## Images

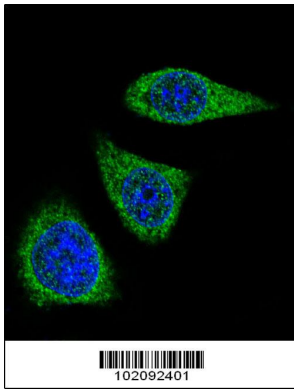


Anti-MMP7 Antibody (A132) at 1:1000 dilution + HL-60 whole cell lysates/ proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.

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



## Citations

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- [AGEs-Induced Calcification and Apoptosis in Human Vascular Smooth Muscle Cells Is Reversed by Inhibition of Autophagy](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.