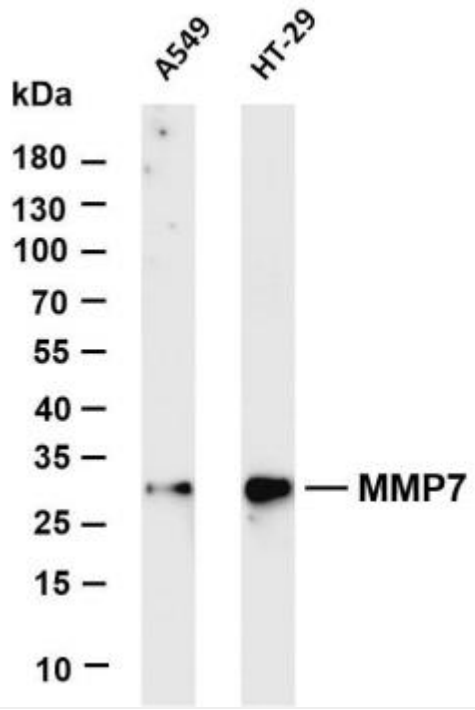
MMP-7 Rabbit mAb

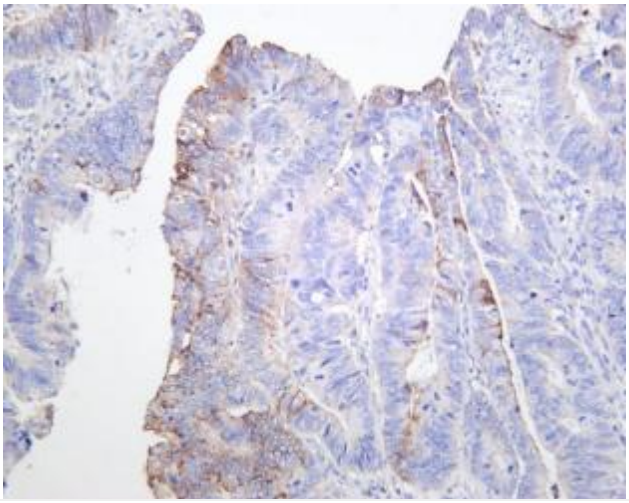
Catalog No	YP-rAb-17805
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IF,ELISA
Gene Name	MMP7 MPSL1 PUMP1
Protein Name	Matrilysin
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/ 1 year(Do not lower than -25° C)
Synonyms	MMP-7;Matrilysin;MMP7 ; MPSL1 ; PUMP1 ; Matrilysin ; Matrin ; Matrix metalloproteinase-7 ; MMP-7 ; Pump-1 protease ; Uterine metalloproteinase;MMP7 MPSL1 PUMP1
Observed Band	30kD
Calculated Molecular Weight	30kD
Cell Pathway	Secreted
Tissue Specificity	Colon,Human small intestine,Kidney,Placenta,
Function	Catalytic activity:Cleavage of 14-Ala-|-Leu-15 and 16-Tyr-|-Leu-17 in B chain of insulin. No action on collagen types I, II, IV, V. Cleaves gelatin chain alpha-2(I) > alpha-1(I).,cofactor:Binds 2 calcium ions per subunit.,cofactor:Binds 2 zinc ions per subunit.,Domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,Function:Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase.,similarity:Belongs to the peptidase M10A family.,
Background	matrix metallopeptidase 7(MMP7) Homo sapiens This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin 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 on chromosome 11. This gene exhibits elevated expression levels in multiple human cancers. [provided by RefSeq, Jan 2016],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MMP7 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: HT-29 Predicted band size: 30kDa Observed band size: 30kDa



Human colon carcinoma was stained with anti-MMP7 rabbit antibody

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ICO-IP检测 | 切片 | 染色 | 免疫组化 | 免疫荧光 | 透射电镜全套
| 宏基因组、转录组、基因组、蛋白组、代谢组测序
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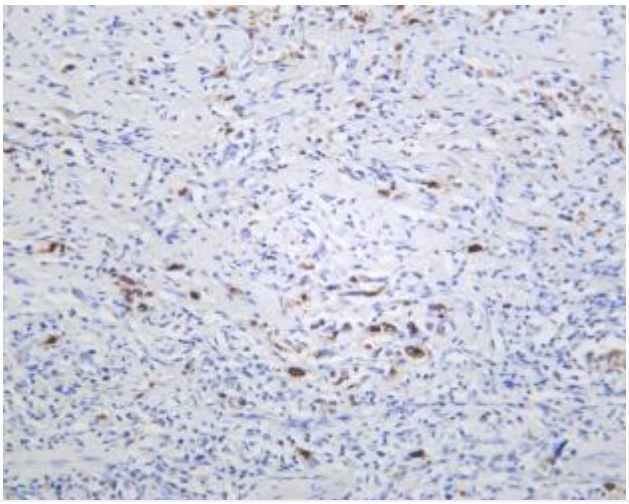
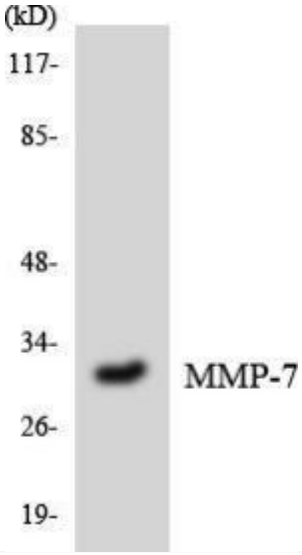
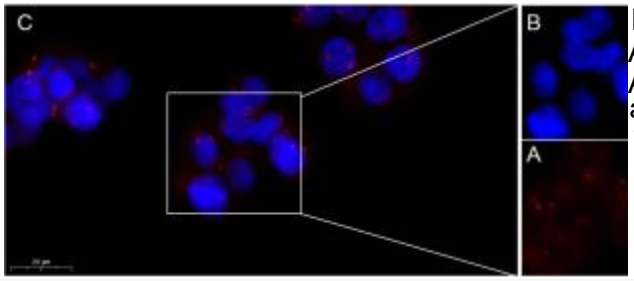


Human gastric carcinoma was stained with anti-MMP7 rabbit antibody



Western blot analysis of the lysates from HT-29 cells using MMP-7 antibody.



Immunofluorescence analysis of HT-29 cell. 1,primary Antibody was diluted at 1:200(4～C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).