



MMP-7 Polyclonal Antibody

Catalog No	BYab-02673
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	MMP7
Protein Name	Matrilysin
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP-7. AA range:218-267
Specificity	MMP-7 Polyclonal Antibody detects endogenous levels of MMP-7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MMP7; MPSSL1; PUMP1; Matrilysin; Matrin; Matrix metalloproteinase-7; MMP-7; Pump-1 protease; Uterine metalloproteinase
Observed Band	29kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
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.,

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Background

matrix metalloproteinase 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

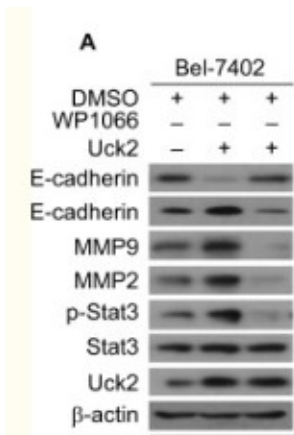
Avoid repeated freezing and thawing!

Usage suggestions

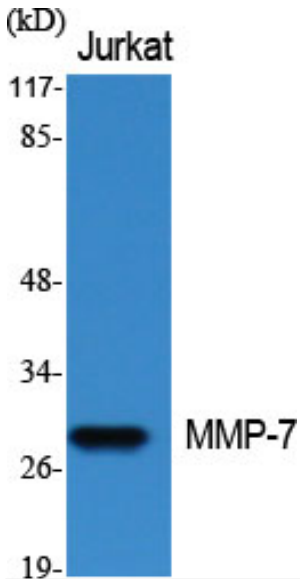
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



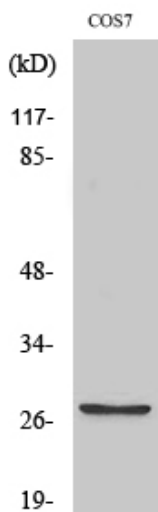
Products Images



Zhou, Qiming, et al. "Uridine-cytidine kinase 2 promotes metastasis of hepatocellular carcinoma cells via the Stat3 pathway." *Cancer management and research* 10 (2018): 6339.

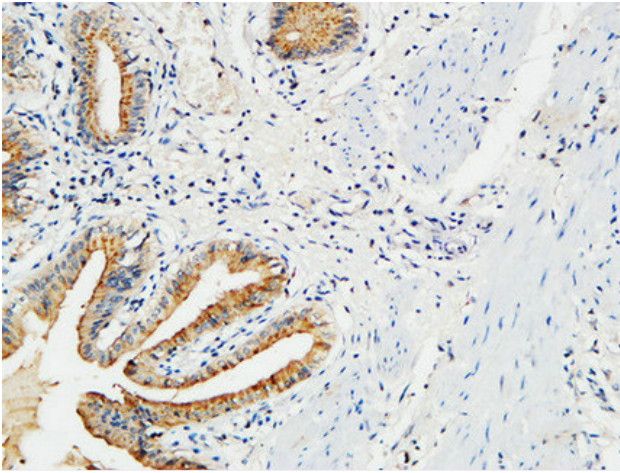


Western Blot analysis of various cells using MMP-7 Polyclonal Antibody diluted at 1:500

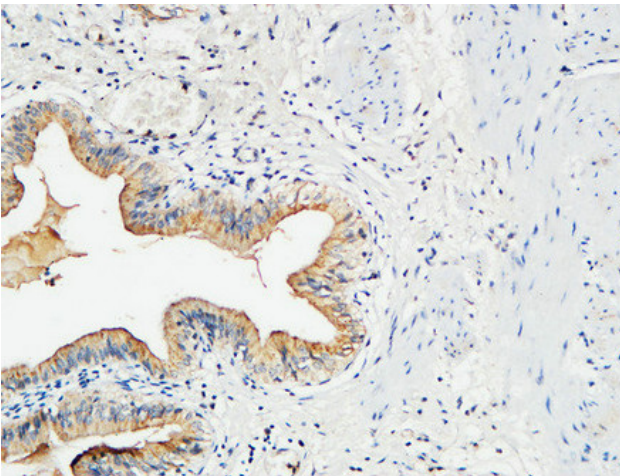


Western Blot analysis of COS7 cells using MMP-7 Polyclonal Antibody diluted at 1:500

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Immunohistochemical analysis of paraffin-embedded Human gallbladder. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human gallbladder. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).