



MMP-7 Monoclonal Antibody

Catalog No	YP-mAb-02673
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MMP7
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP-7. AA range:218-267
Specificity	MMP-7 Monoclonal Antibody detects endogenous levels of MMP-7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:3.4.24.23;Matrilysin;Matrin;Matrix metalloproteinase 7;Matrix metalloproteinase-7;MMP-7;MMP7;MPSL1;PUMP1;Pump-1 protease;Uterine metalloproteinase
Observed Band	29kD
Calculated Molecular Weight	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.,



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],

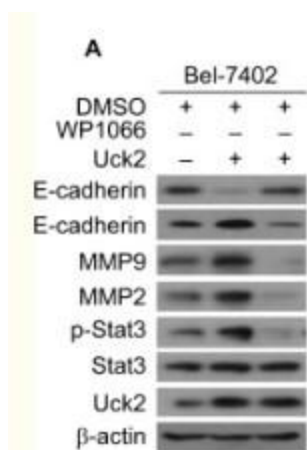
matters needing attention

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



Western Blot analysis of various cells using MMP-7 Monoclonal Antibody