# MMP-10 Polyclonal Antibody

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| **Catalog No** | YP-Ab-02677 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | IHC;IF;WB;ELISA |
| **Gene Name** | MMP10 |
| **Protein Name** | Stromelysin-2 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human MMP-10. AA range:361-410 |
| **Specificity** | MMP-10 Polyclonal Antibody detects endogenous levels of MMP-10 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 1:500-2000 Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | MMP10; STMY2; Stromelysin-2; SL-2; Matrix metalloproteinase-10; MMP-10; Transin-2 |
| **Observed Band** | 54kD |
| **Cell Pathway** | Secreted, extracellular space, extracellular matrix . |
| **Tissue Specificity** | Coronary artery,Ovary, |
| **Function** | catalytic activity:Similar to stromelysin 1, but action on collagen types III, IV and V is weak.,cofactor:Binds 2 zinc ions per subunit.,cofactor:Calcium.,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:Can degrade fibronectin, gelatins of type I, III, IV, and V; weakly collagens III, IV, and V. Activates procollagenase.,similarity:Belongs to the peptidase M10A family.,similarity:Contains 4 hemopexin-like domains., |
| **Background** | 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 |

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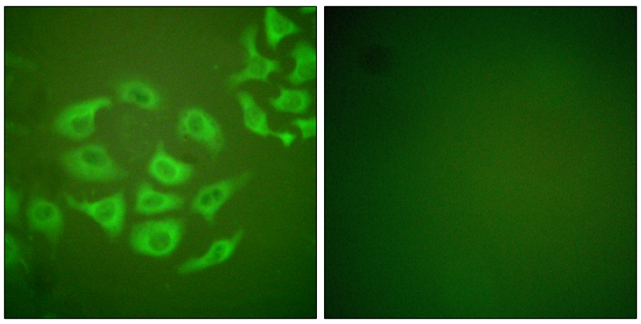
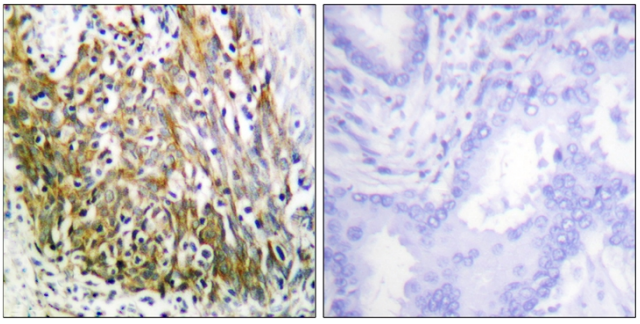
| | proteolytically processed to generate the mature protease. This secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016], |
| **matters 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



Immunofluorescence analysis of HepG2 cells, using MMP-10 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using MMP-10 Antibody. The picture on the right is blocked with the synthesized peptide.