



# MMP19 (Cleaved-Tyr98) rabbit pAb

Cat No.:ES20024

For research use only

## Overview

|                                 |  |
|---------------------------------|--|
| <b>Product Name</b>             | MMP19 (Cleaved-Tyr98) rabbit pAb   |
| <b>Host species</b>             | Rabbit   |
| <b>Applications</b>             | WB;IHC   |
| <b>Species Cross-Reactivity</b> | Human;Mouse  |
| <b>Recommended dilutions</b>    | WB 1:500-2000;IHC-p 1:50-300   |
| <b>Immunogen</b>                | Synthesized peptide derived from human MMP19 (Cleaved-Tyr98)   |
| <b>Specificity</b>              | This antibody detects endogenous levels of Human,Mouse MMP19 (Cleaved-Tyr98, protein was cleaved amino acid sequence between 97-98 )   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.   |
| <b>Protein Name</b>             | MMP19 (Cleaved-Tyr98)  |
| <b>Gene Name</b>                | MMP19 MMP18 RASI   |
| <b>Cellular localization</b>    | Secreted, extracellular space, extracellular matrix .  |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Clonality</b>                | Polyclonal   |
| <b>Concentration</b>            | 1 mg/ml  |
| <b>Observed band</b>            | 45 55kD  |
| <b>Human Gene ID</b>            | 4327   |
| <b>Human Swiss-Prot Number</b>  | Q99542   |
| <b>Alternative Names</b>        | Matrix metalloproteinase-19 (MMP-19;EC 3.4.24.-;Matrix metalloproteinase RASI;Matrix metalloproteinase-18;MMP-18)  |
| <b>Background</b>               | alternative products:Additional isoforms seem to exist,catalytic activity:Cleaves aggrecan at the 360-Ser- -Phe-361 site.,cofactor:Binds 1 zinc ion per subunit.,cofactor:Calcium.,disease:May play a role in pathological processes participating in rheumatoid arthritis (RA)-associated joint tissue destruction. |





Autoantigen anti-MMP19 are frequent in RA patients.,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.,enzyme regulation:Strongly inhibited by TIMP-2, TIMP-3 and TIMP-4, while TIMP-1 is less efficient.,function:Endopeptidase that degrades various components of the extracellular matrix, such as aggrecan and cartilage oligomeric matrix protein (comp), during development, haemostasis and pathological conditions (arthritic disease). May also play a role in neovascularization or angiogenesis. Hydrolyzes collagen type IV, laminin, nidogen, nascin-C isoform, fibronectin, and type I gelatin.,PTM:Activated by autolytic cleavage after Lys-97.,similarity:Belongs to the peptidase M10A family.,similarity:Contains 4 hemopexin-like domains.,tissue specificity:Expressed in mammary gland, placenta, lung, pancreas, ovary, small intestine, spleen, thymus, prostate, testis colon, heart and blood vessel walls. Not detected in brain and peripheral blood leukocytes. Also expressed in the synovial fluid of normal and rheumatoid patients.,

Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

