ELK Biotechnology

# MMP13 (Cleaved-Tyr104) rabbit pAb

## Cat No.:ES20023

**For research use only**

**Overview**

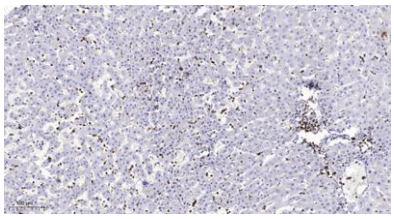
| | |
|---|---|
| **Product Name** | MMP13 (Cleaved-Tyr104) rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB;ELISA;IHC |
| **Species Cross-Reactivity** | Human;Rat;Mouse; |
| **Recommended dilutions** | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000 |
| **Immunogen** | Synthesized peptide derived from human MMP13 (Cleaved-Tyr104) |
| **Specificity** | This antibody detects endogenous levels of Human MMP13 (Cleaved-Tyr104, protein was cleaved amino acid sequence between 103-104 ) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | MMP13 (Cleaved-Tyr104) |
| **Gene Name** | MMP13 |
| **Cellular localization** | Secreted, extracellular space, extracellular matrix . Secreted . |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 42 53kD |
| **Human Gene ID** | 4322 |
| **Human Swiss-Prot Number** | P45452 |
| **Alternative Names** | Collagenase 3 (EC 3.4.24.-;Matrix metalloproteinase-13;MMP-13) |
| **Background** | cofactor:Binds 2 zinc ions per subunit.,cofactor:Binds 4 calcium ions per subunit.,disease:Defects in MMP13 are the cause of spondyloepimetaphyseal dysplasia type 2 (SEMD2) [MIM:602111]; also known as spondyloepimetaphyseal dysplasia type Missouri. |

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

ELK Biotechnology

SEMDs are a heterogeneous group of skeletal disorders characterized by defective growth and modeling of the spine and long bones. The SEMDs are distinguished from the spondylometaphyseal dysplasias and the spondyloepiphyseal dysplasias by the combined involvement of the epiphyses and metaphyses. The 3 disorders have malformations of the vertebrae in common.,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 collagen type I. Does not act on gelatin or casein. Could have a role in tumoral process.,similarity:Belongs to the peptidase M10A family.,similarity:Contains 4 hemopexin-like domains.,tissue specificity:Seems to be specific to breast carcinomas.,



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).

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C