

MMP13 (Cleaved-Tyr104) rabbit pAb

Catalog No :	YC0186
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA;IHC
Target :	MMP-13
Fields :	>>IL-17 signaling pathway;>>Relaxin signaling pathway;>>Parathyroid hormone synthesis, secretion and action
Gene Name :	MMP13
Protein Name :	MMP13 (Cleaved-Tyr104)
Human Gene Id :	4322
Human Swiss Prot No :	P45452
Mouse Gene Id :	17386
Mouse Swiss Prot No :	P33435
Rat Swiss Prot No :	P23097
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 42 53kD

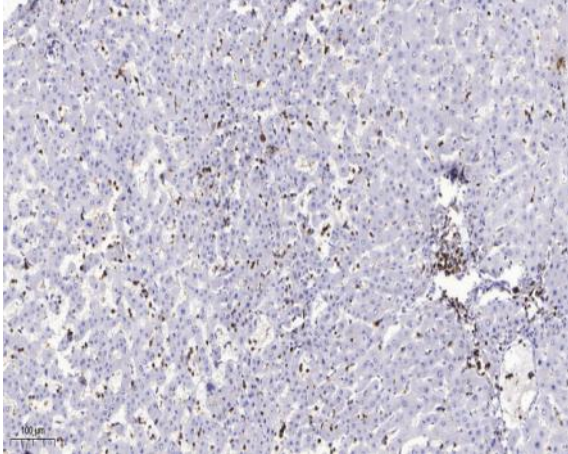
Background : cofactor: Binds 2 zinc ions per subunit., cofactor: Binds 4 calcium ions per subunit., disease: Defects in MMP13 are the cause of spondyloepimetaphyseal dysplasia type 2 (SEMD2) [MIM:602111]; also known as spondyloepimetaphyseal dysplasia type Missouri. SEMDs are a heterogeneous group of 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.,

Function : skeletal system development, ossification, response to hypoxia, proteolysis, response to mechanical stimulus, response to abiotic stimulus, response to endogenous stimulus, response to hormone stimulus, response to organic substance, bone mineralization, embryonic limb morphogenesis, collagen catabolic process, biomineral formation, collagen metabolic process, appendage morphogenesis, limb morphogenesis, embryonic appendage morphogenesis, embryonic hindlimb morphogenesis, hindlimb morphogenesis, response to estrogen stimulus, multicellular organismal metabolic process, multicellular organismal catabolic process, multicellular organismal macromolecule metabolic process, response to steroid hormone stimulus, embryonic morphogenesis, appendage development, cartilage development, limb development, bone development, response to oxygen levels,

Subcellular Location : Secreted, extracellular space, extracellular matrix . Secreted .

Expression : Detected in fetal cartilage and calvaria, in chondrocytes of hypertrophic cartilage in vertebrae and in the dorsal end of ribs undergoing ossification, as well as in osteoblasts and periosteal cells below the inner periosteal region of ossified ribs. Detected in chondrocytes from in joint cartilage that have been treated with TNF and IL1B, but not in untreated chondrocytes. Detected in T lymphocytes. Detected in breast carcinoma tissue.

Products Images



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).