

产品名称: MMP-13 Rabbit Polyclonal Antibody
产品货号: AP Rab13979



产品概述 (Summary)

产品名称 (Production Name)	MMP-13 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	MMP13
别名 (Alternative Names)	MMP13; Collagenase 3; Matrix metalloproteinase-13; MMP-13
基因 ID (Gene ID)	4322.0
蛋白 ID (SwissProt ID)	P45452.The antiserum was produced against synthesized peptide derived from human MMP-13. AA range:10-59

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:100-1:300,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	55kDa

研究背景 (Background)

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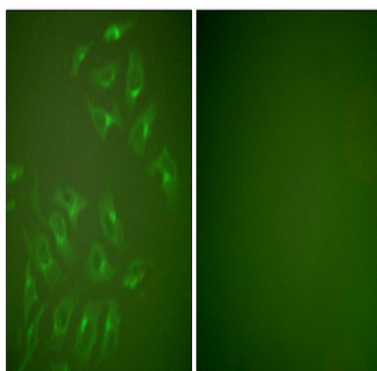


This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016],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.,

研究领域 (Research Area)

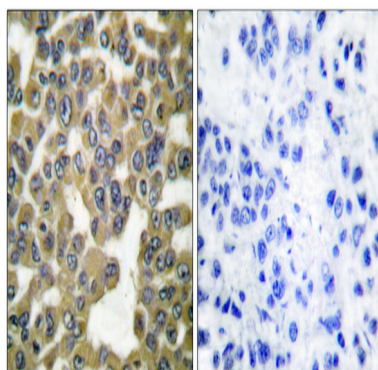
Angiogenesis

图片 (Image Data)

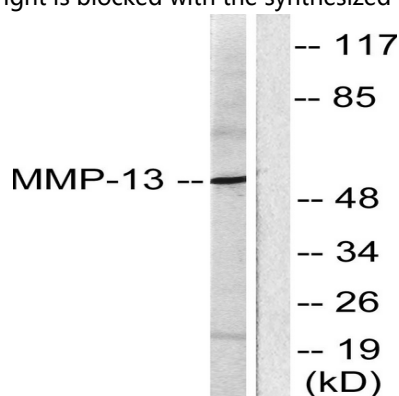


Immunofluorescence analysis of HepG2 cells, using MMP-13 Antibody. The picture on the right is blocked with the synthesized peptide.

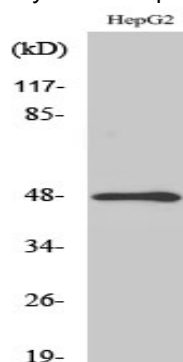
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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MMP-13 Antibody. The picture on the right is blocked with the synthesized peptide.

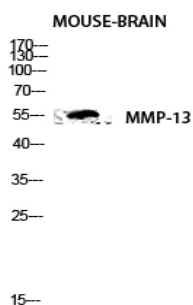


Western blot analysis of lysates from LOVO cells, using MMP-13 Antibody. The lane on the right is blocked with the synthesized peptide.

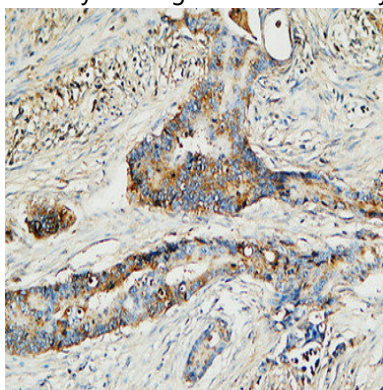


Western Blot analysis of various cells using MMP-13 Polyclonal Antibody diluted at 1: 500

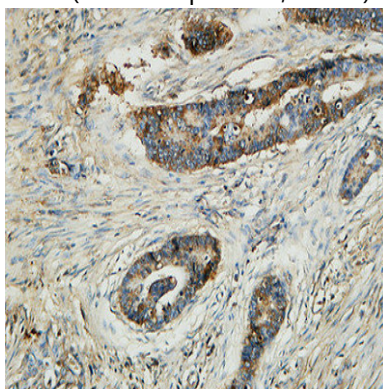
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Western blot analysis of mouse-brain lysis using MMP-13 antibody. Antibody was diluted at 1:500

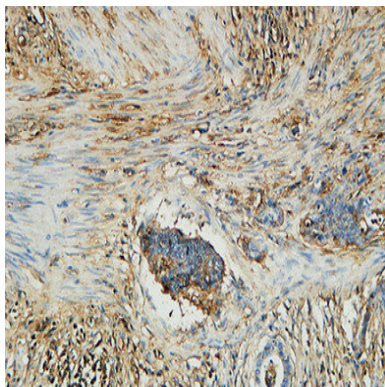


Immunohistochemical analysis of paraffin-embedded Human Colon cancer. 1, Antibody was diluted at 1:100 (4°,overnight) .
2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

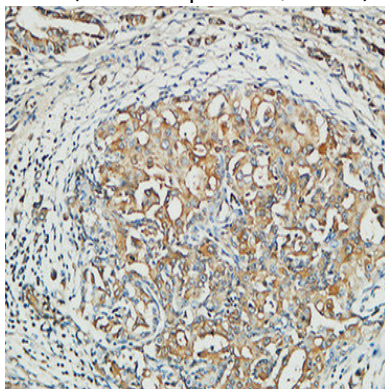


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Immunohistochemical analysis of paraffin-embedded Human Mammary cancer. 1, Antibody was diluted at
1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody
was diluted at 1:200 (room temperature, 30min) .

注意事项 (Note)

For research use only .