

产品名称: MMP-16 Rabbit Polyclonal Antibody
产品货号: APRab13983



产品概述 (Summary)

产品名称 (Production Name)	MMP-16 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,Mouse,Rat

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)	MMP16
别名 (Alternative Names)	MMP16; MMPX2; Matrix metalloproteinase-16; MMP-16; MMP-X2; Membrane-type matrix metalloproteinase 3; MT-MMP 3; MTMMP3; Membrane-type-3 matrix metalloproteinase; MT3-MMP; MT3MMP
基因 ID (Gene ID)	4325.0
蛋白 ID (SwissProt ID)	P51512.The antiserum was produced against synthesized peptide derived from human MMP-16. AA range:551-600

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	70kDa

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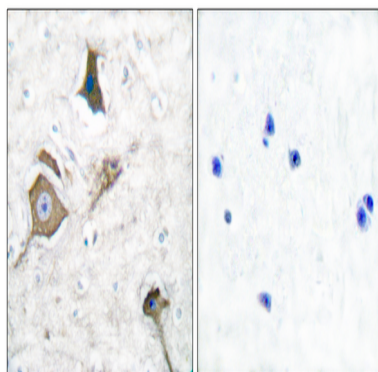
研究背景 (Background)

Proteins of the matrix metalloproteinase (MMP) 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. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The encoded protein activates MMP2 by cleavage. This gene was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16. [provided by RefSeq, Oct 2010], cofactor: Binds 1 zinc ion per subunit., cofactor: Calcium., developmental stage: Expressed in tissues undergoing reconstruction. Present in fetal tissues, especially in brain. Expression seems to decline with advanced development., 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: TIMP-2 shows little inhibitory activity compared to TIMP-1. TIMP-1 seems to have less binding affinity than TIMP-2 for the short isoform., function: Endopeptidase that degrades various components of the extracellular matrix, such as collagen type III and fibronectin. Activates progelatinase A. Involved in the matrix remodeling of blood vessels. The short isoform cleaves fibronectin and also collagen type III, but at lower rate. It has no effect on type I, II, IV and V collagen. However, upon interaction with CSPG4, it may be involved in degradation and invasion of type I collagen by melanoma cells., PTM: The precursor is cleaved by a furin endopeptidase., similarity: Belongs to the peptidase M10A family., similarity: Contains 4 hemopexin-like domains., subcellular location: Localized at the cell surface of melanoma cells., subunit: Interacts with CSPG4 through CSPG4 chondroitin sulfate glycosaminoglycan., tissue specificity: Expressed in heart, brain, placenta, ovary and small intestine. The short isoform is found in the ovary.,

研究领域 (Research Area)

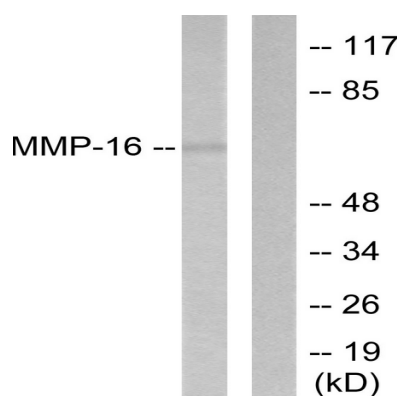
Angiogenesis

图片 (Image Data)

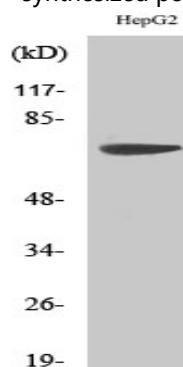


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MMP-16 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from HepG2 cells, using MMP-16 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using MMP-16 Polyclonal Antibody diluted at 1: 500

注意事项 (Note)

For research use only .