

产品名称: MMP2(1H1)Mouse Monoclonal Antibody
产品货号: AMM13989



产品概述 (Summary)

产品名称 (Production Name)	MMP2(1H1)Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC/IF
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)	Monoclonal
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)	MMP2
别名 (Alternative Names)	MMP2
基因 ID (Gene ID)	4313.0
蛋白 ID (SwissProt ID)	P08253.Synthetic Peptide of MMP2 at AA range of INTERNAL

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:200,ICC/IF 1:50-1:200
蛋白分子量 (Molecular Weight)	64, 72kDa

研究背景 (Background)

matrix metalloproteinase 2(MMP2) Homo sapiens This gene is a member of the matrix metalloproteinase (MMP) gene

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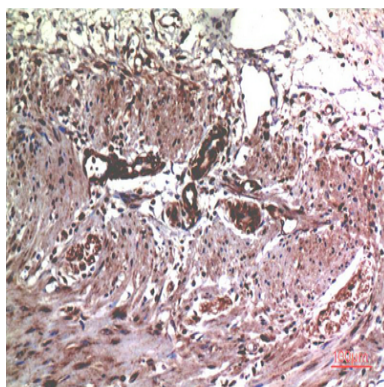


family, that are zinc-dependent enzymes capable of cleaving components of the extracellular matrix and molecules involved in signal transduction. The protein encoded by this gene is a gelatinase A, type IV collagenase, that contains three fibronectin type II repeats in its catalytic site that allow binding of denatured type IV and V collagen and elastin. Unlike most MMP family members, activation of this protein can occur on the cell membrane. This enzyme can be activated extracellularly by proteases, or, intracellularly by its S-glutathiolation with no requirement for proteolytical removal of the pro-domain. This protein is thought to be involved in multiple pathways including roles in the nervous system, endometrial menstrual breakdown, regulation of vascularization, and metastasis. Mutations in this gene have been associated with Wincatalytic activity: Cleavage of gelatin type I and collagen types IV, V, VII, X. Cleaves the collagen-like sequence Pro-Gln-Gly-|-Ile-Ala-Gly-Gln., cofactor: Binds 2 zinc ions per subunit., cofactor: Binds 4 calcium ions per subunit., disease: Defects in MMP2 are the cause of Torg-Winchester syndrome [MIM:259600]; also called multicentric osteolysis nodulosis and arthropathy (MONA). Torg-Winchester syndrome is an autosomal recessive osteolysis syndrome. It is severe with generalized osteolysis and osteopenia. Subcutaneous nodules are usually absent. Torg-Winchester syndrome has been associated with a number of additional features including coarse face, corneal opacities, patches of thickened, hyperpigmented skin, hypertrichosis and gum hypertrophy. However, these features are not always present and have occasionally been observed in other osteolysis syndromes., 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: Inhibited by histatin-3 1/24 (histatin-5), function: In addition to gelatin and collagens, it cleaves KiSS1 at a Gly-|-Leu bond., PTM: The propeptide is processed by MMP14 (MT-MMP1) and MMP16 (MT-MMP3), similarity: Belongs to the peptidase M10A family, similarity: Contains 3 fibronectin type-II domains, similarity: Contains 4 hemopexin-like domains, subunit: Ligand for integrin alpha-V/beta-3, tissue specificity: Produced by normal skin fibroblasts,

研究领域 (Research Area)

Leukocyte transendothelial migration; GnRH; Pathways in cancer; Bladder cancer;

图片 (Image Data)

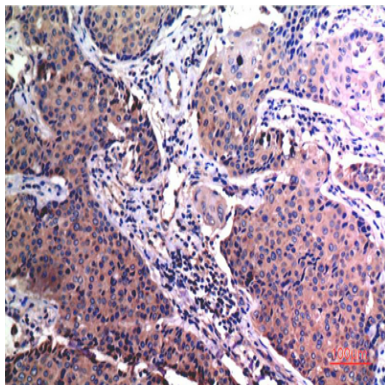


Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using MMP2 Mouse mAb diluted at

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1:200.



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using MMP2 Mouse mAb diluted at 1:200.

注意事项 (Note)

For research use only .