金属蛋白酶组织抑制因子-1 抗体

产品货号： mIR4600

英文名称： TIMP-1

中文名称： 金属蛋白酶组织抑制因子-1 抗体

别　　名： Clgi; Collagenase inhibitor; EPA; EPO; Erythroid Potentiating Activity; Fibroblast collagenase inhibitor; FLJ90373; HC; Human Collagenase Inhibitor; Metalloproteinase inhibitor 1; Metalloproteinase inhibitor 1 precursor; OTTHUMP00000023214; TIMP 1; TIMP; TIMP metallopeptidase inhibitor 1; TIMP1 protein; Tissue Inhibitor of Metalloproteinase 1; Tissue inhibitor of metalloproteinases; Ttissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor.

研究领域： 肿瘤　细胞生物　神经生物学　细胞凋亡　生长因子和激素　激酶和磷酸酶　合成与降解

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 21kDa

细胞定位： 分泌型蛋白

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human TIMP-1:131-207/207

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

PubMed： PubMed

产品介绍 background:

This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq].

Function:

Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.

Subcellular Location:

Secreted.

Post-translational modifications:

The activity of TIMP1 is dependent on the presence of disulfide bonds.

Similarity:

Belongs to the protease inhibitor I35 (TIMP) family.

Contains 1 NTR domain.

SWISS:

P01033

Gene ID:

7076

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

TIMP1 是基质金属蛋白酶的抑制酶，其功能与 MMP 相反，能抑制肿瘤细胞的浸润和转移，主要用于各种恶性肿瘤如乳腺癌等的研究。TIMP-1 是一种 28kDa 的糖蛋白，主要分泌细胞为多种结缔组织细胞，被认为是组织中 MMPs 活性的主要调节者，它可以和 MMPs 家族成员以共价键方式形成 1:1 的复合物，从而发挥其抑制作用。在正常生理条件下，MMPs 和 TIMPs 之间的平衡状态是维持细胞外基质正常状态所必需的，一旦它们之间的比例失调，就会造成一系列的病理状态。

产品图片 ：