基质金属蛋白酶-12 抗体

产品货号： mIR23566

英文名称： MMP12

中文名称： 基质金属蛋白酶-12 抗体

别　　名： matrix metalloproteinase 12; MMP12; EC 3.4.24.65; HME; Macrophage elastase; Macrophage metaloelastase; Matrix metalloprotease 12; ME; MGC138506; MME; MMP 12; MMP12_HUMAN; MMP 12; MMP-12; MMP12.

研究领域： 肿瘤　神经生物学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human,

产品应用： IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 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： 42/52kDa

细胞定位： 细胞外基质 分泌型蛋白

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human MMP12 :401-470/470

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 ° C 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 ° C.

PubMed： PubMed

产品介绍： 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, metastasis, and atherosclerosis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases.

MMP12 was first described in murine macrophages, later in human macrophages, and more recently in other cell types. Also known as metalloelastase, MMP12 is able to degrade elastin, entactin, laminin 1, fibronectin, type IV collagen as well as insulin B-chain and casein. MMP12 is often confused with the Serine proteinase, Leukocyte elastase (EC 3.4.21.37) because of similar nomenclature. MMP12 is structurally similar to the classical MMPs (MMP1, MMP3); it contains a propeptide with autoinhibitory cysteine switch site, a well-conserved zinc site, hinge region and hemopexin domain. MMP12 lacks a transmembrane domain and furin cleavage site. The zymogen for MMP-12 is about 54 kD, and is quickly activated to the 45 kD form; and this breaks down to cascade of active forms, ending with the common 22 kD form. Stimulated macrophages produce MMP12; it has also been found in osteosarcoma cells, synovial fibroblasts and lung fibroblasts.

Subcellular Location:

Secreted, extracellular space, extracellular matrix (Probable).

Tissue Specificity:

Found in alveolar macrophages but not in peripheral blood monocytes.

Similarity:

Belongs to the peptidase M10A family.

Contains 4 hemopexin-like domains.

SWISS:

Q63341

Gene ID:

4321

Important Note:

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

MMP12(巨噬细胞金属弹力蛋白酶)可使纤溶酶原转化为血管稳定因子(angiostatin),是一种重要的肿瘤血管形成的抑制因子。

产品图片