

# MMP-1 Antibody HRP Conjugated

Catalog No: #C00284H

Package Size: #C00284H 100ul

## Description

|                       |                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | MMP-1 Antibody HRP Conjugated                                                                                                                                                                                                                                                                                   |
| Host Species          | Rabbit                                                                                                                                                                                                                                                                                                          |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                                                      |
| Isotype               | IgG                                                                                                                                                                                                                                                                                                             |
| Purification          | Purified by Protein A.                                                                                                                                                                                                                                                                                          |
| Applications          | IHC-P IHC-F                                                                                                                                                                                                                                                                                                     |
| Species Reactivity    | Hu Ms Rt                                                                                                                                                                                                                                                                                                        |
| Immunogen Description | KLH conjugated synthetic peptide aa 430-464 464 derived from rat MMP1                                                                                                                                                                                                                                           |
| Conjugates            | HRP                                                                                                                                                                                                                                                                                                             |
| Target Name           | MMP-1                                                                                                                                                                                                                                                                                                           |
| Other Names           | CLGN; CLG; 27 kDa interstitial collagenase; collagenase, fibroblast; Fibroblast collagenase; Interstitial collagenase; Matrix metalloproteinase 1 interstitial collagenase; Matrix metalloproteinase-1; Matrix metalloproteinase 1; Matrix Metalloproteinase 1; MMP-1; MMP1; MMP1_HUMAN; OTTHUMP00000045866; MM |
| Accession No.         | NCBI Gene ID300339                                                                                                                                                                                                                                                                                              |
| Cell Localization     | Secreted                                                                                                                                                                                                                                                                                                        |
| Concentration         | 1mg ml                                                                                                                                                                                                                                                                                                          |
| Formulation           | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                |
| Storage               | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                 |

## Application Details

IHC-P=1:50-200 IHC-F=1:50-200

## Background

The matrix metalloproteinases (MMPs) are a family of at least eighteen secreted and membrane bound zincendopeptidases. Collectively, these enzymes can degrade all the components of the extracellular matrix, including fibrillar and non fibrillar collagens, fibronectin, laminin and basement membrane glycoproteins. In general, a signal peptide, a propeptide, and a catalytic domain containing the highly conserved zinc binding site characterizes the structure of the MMPs. In addition, fibronectin like repeats, a hinge region, and a C terminal hemopexin like domain allow categorization of MMPs into the collagenase, gelatinase, stomelysin and membrane type MMP subfamilies. All MMPs are synthesized as proenzymes, and most of them are secreted from the cells as proenzymes. Thus, the activation of these proenzymes is a critical step that leads to extracellular matrix breakdown. MMPs are considered to play an important role in wound healing, apoptosis, bone elongation, embryo development, uterine involution, angiogenesis and tissue remodeling, and in diseases such as multiple sclerosis, Alzheimer's, malignant gliomas, lupus, arthritis, periodontis, glomerulonephritis, atherosclerosis, tissue ulceration, and in cancer cell invasion and metastasis.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.