Mouse anti MMP1 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** MMP1
- **Catalogue:** 606-050
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY348
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetid peptide of MMP1

BACKGROUND

Matrix metalloproteinase-1 (MMP-1) also known as interstitial collagenase and fibroblast collagenase is an enzyme, a member of the peptidase M10 family of matrix metalloproteinases. Proteins in this 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. Collagenases are the only proteinases that specifically cleave the collagen triple helix, and are important in a large number of physiological and pathological processes. MMP-1 has an archetypal structure consisting of a pre-domain, a pro-domain, a catalytic domain, a linker region and a hemopexin- -like domain. The MMP1 encoded preproprotein is proteolytically processed to generate the mature protease. MMP1 can degrade interstitial collagen types I, II, and III, clearing a path for cancer cells to invade matrix barriers and migrate through tissue stroma. Studies show that MMP1-1607 (1G>2G) polymorphism is significantly associated with elevated risk of cancers. Mutations in this gene are also associated with chronic obstructive pulmonary disease (COPD).

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human MMP1 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 52.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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*Optimal dilutions should be determined by researchers for the specific applications.

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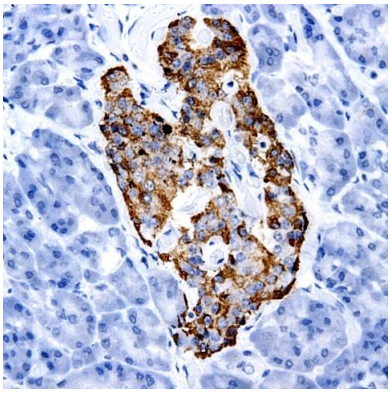
DATA ATTACHMENTS



Immunohistochemistry: Human breast carcinoma stained with Mouse anti-MMP1 (Clone ZY348) (Cat# 606-050) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES