

Mouse Anti-MMP1 [3B6]: MC0021, MC0021RTU7

Intended Use: For Research Use Only

Description: Matrix metalloproteinases (MMPs), a family of peptidase enzymes, plays a critical role in degradation of extracellular matrix components in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-9 (also designated gelatinase B) has been shown to degrade bone collagens in concert with MMP1 (also designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption. MMP1 is downregulated by p53, and abnormality of p53 expression may contribute to joint degradation in rheumatoid arthritis by regulating MMP1 expression.

Specifications

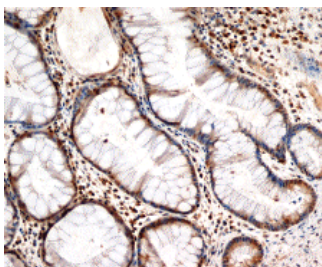
Clone: 3B6
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human
 Immunogen: Human MMP-1 amino acids 366-376
 Localization: Extracellular matrix
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF, IP, WB
 Package:

Description	Catalog No.	Size
MMP1 Concentrated	MC0021	1 ml
MMP1 Prediluted	MC0021RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Colon, gastric tissue, gallbladder, urinary bladder, cervical carcinoma, HeLa cells
 Concentrated Dilution: 25-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human colon stained with anti-MMP1 using DAB

References:

1. Small molecule inhibition of the CBFβ/RUNX interaction decreases ovarian cancer growth and migration through alterations in genes related to epithelial-to-mesenchymal transition. Carlton AL, et al. Gynecol Oncol 149:350-360, 2018.
2. Profiling markers of prognosis in colorectal cancer. Lyall, M.S. et al. Clin Cancer Res. 12: 1184-91, 2006.
3. Matrix metalloproteinases and their inhibitors in gastric cancer. Murray, G.I. et al. Gut. 43: 791-7, 1998.