

Mouse Anti-MMP2 [8B4]: MC0551, MC0551RTU7

Intended Use: For Research Use Only

Description: MMPs are proteolytic enzymes capable of degrading connective tissue components. They have a common mode of activation, a conserved amino acid sequence in the putative metal binding-active site region, and are inhibited by specific tissue inhibitors of metalloproteinases (TIMPs). MMPs and TIMPs play a significant role in regulating angiogenesis. MMP-2 is synthesized as a 631 amino acid proenzyme which is activated by cleavage of the first 80 amino acids. This antibody reacts with both latent and active MMP-2.

Specifications

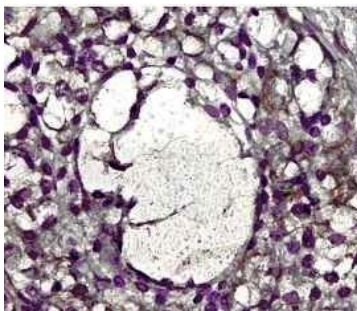
Clone: 8B4
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Immunogen: Activated recombinant human MMP-2
 Localization: Cytoplasm
 Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C.
 Applications: IHC, ELISA, IF, IP, WB
 Package:

Description	Catalog No.	Size
MMP2 Concentrated	MC0551	1 ml
MMP2 Prediluted	MC0551RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Placenta, bladder, breast, ovarian cancer
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 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 ovary stained with anti-MMP2 using AEC

References:

1. Matrix metalloproteinase-2 cleavage of the $\beta 1$ integrin ectodomain facilitates colon cancer cell motility. Kryczka, J; et al. The Journal of biological chemistry. 287: 36556-66 2012.
2. Chromosome 7 and 19 trisomy in cultured human neural progenitor cells. Sareen, D; et al. PloS one 4 e7630, 2009.
3. Vascular matrix metalloproteinase-9 mediates the inhibition of myogenic reactivity in small arteries isolated from rats after short-term administration of relaxin. Jeyabalan, A; et al. Endocrinology 148: 189-97 2007.