

## Datasheet

### MMP2 monoclonal antibody, clone SB13a (HRP)

**Catalog Number:** MAB5893

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against recombinant MMP2.

**Clone Name:** SB13a

**Immunogen:** Recombinant protein corresponding to human MMP2.

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IHC-Fr, IHC-P  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** human MMP-2; Does not cross react to human MMP-1, MMP-3 or MMP-9.

**Form:** Liquid

**Conjugation:** HRP

**Concentration:** Lot specific

**Isotype:** IgG1

**Recommend Usage:** ELISA (1:1000-1:4000)  
Immunohistochemistry (1:1000-1:2000)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS, pH 7.4 (50% glycerol)

**Storage Instruction:** Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 4313

**Gene Symbol:** MMP2

**Gene Alias:** CLG4, CLG4A, MMP-II, MONA, TBE-1

**Gene Summary:** 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 and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

#### References:

1. Cellular mechanisms for human procollagenase-3 (MMP-13) activation. Evidence that MT1-MMP (MMP-14) and gelatinase a (MMP-2) are able to generate active enzyme. Knauper V, Will H, Lopez-Otin C, Smith B, Atkinson SJ, Stanton H, Hembry RM, Murphy G. J Biol Chem. 1996 Jul 19;271(29):17124-31.
2. Matrix metalloproteinases degrade myelin basic protein. Chandler S, Coates R, Gearing A, Lury J, Wells G, Bone E. Neurosci Lett. 1995 Dec 15;201(3):223-6.
3. Activation of progelatinase B (MMP-9) by gelatinase A (MMP-2). Fridman R, Toth M, Pena D, Mobashery S. Cancer Res. 1995 Jun 15;55(12):2548-55.