



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

**Matrix Metalloproteinase 1 (MMP1). Mouse Monoclonal Antibody**  
MMP1; MMP-1; CLG; CLGN; Matrix metalloproteinase 1; Interstitial collagenase

**BACKGROUND**

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. 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 92 kDa type IV collagenase or gelatinase B) has been shown to degrade bone collagens in concert with MMP-1 (also designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption. MMP-1 is downregulated by p53, and abnormality of p53 expression may contribute to joint degradation in rheumatoid arthritis by regulating MMP-1 expression.

**ORDERING INFORMATION**

**CATALOG NUMBER**

X2053M

**SIZE**

200 µg

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone 3B6

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG1

**APPLICATIONS**

Western blot, Immunohistochemistry

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

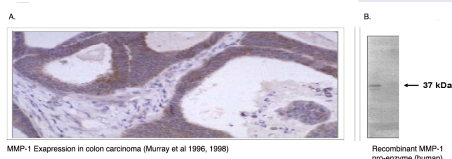
Human P03956

**IMMUNOGEN**

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the C-terminus of the human MMP1 protein and mouse myeloma Ag8563 cells.

A. Immunohistochemical staining using MMP-1 antibody (Cat. No. X2053M) on colon carcinoma tissue section.

B. Western blot using MMP-1 antibody on recombinant human MMP-1 proenzyme (400 ng/lane).



**POSITIVE CONTROL/TISSUE EXPRESSION**

Colon, oesophageal and gastric tissues

**COMMENTS**

Antibody can be used for Western blotting (1-2 µg/ml) and immunohistochemistry on formalin-fixed paraffin-embedded tissues (1-5 µg/ml). Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Catrina, A.I., et al. (2002). Anti-tumour necrosis factor (TNF)-alpha therapy (etanercept) down-regulates serum matrix metalloproteinase (MMP)-3 and MMP-1 in rheumatoid arthritis. *Rheumatology (Oxford)*. 41(5);484-489.
2. Yantiss, R.K., et al. (2002). Utility of MMP-1, p53, E-cadherin, and collagen IV immunohistochemical stains in the differential diagnosis of adenomas with misplaced epithelium versus adenomas with invasive adenocarcinoma. *Am. J. Surg. Pathol.* 26(2);206-215.

**PRODUCT SPECIFIC REFERENCES**