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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Matrix Metalloproteinase 1 (MMP1). Mouse Monoclonal Antibody

MMP1; MMP-1; CLG; CLGN; Matrix metallopeptidase 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).

Exalpha Biologicals, Inc. 2 Shaker Road, Bldg. B101 Shirley, MA 01464
Tel: 800.395.1137 Fax: 866.924.5100 www.exalpha.com info@exalpha.com

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 -20ºC. 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

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