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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

www.szabo-scandic.com

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

Matrix Metalloproteinase 9 (MMP9). Mouse Monoclonal Antibody
CLG4B; GELB; 92 kDa gelatinase; matrix metallopeptidase 9

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 down-regulated by p53, and abnormality of p53 expression may contribute to joint degradation in rheumatoid arthritis by regulating MMP-1 expression.

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 MMP9 protein and mouse myeloma Ag8563 cells.

ORDERING INFORMATION

CATALOG NUMBER
X2056M

SIZE
200 µg

FORM
Unconjugated

HOST/CLONE
Mouse Clone 2C3

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

CONCENTRATION
See vial for concentration

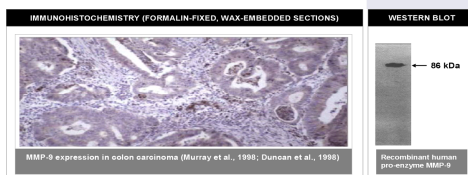
ISOTYPE
IgG1

APPLICATIONS
Western Blot, Immunohistochemistry (Paraffin sections)

SPECIES REACTIVITY
Human

ACCESSION NUMBER
Human P14780

Left: Immunohistochemical staining of paraffin embedded colon carcinoma using MMP9 antibody (Cat. No. X2056M). Antigen retrieval using 10mM citrate buffer and microwave method was used. Right: Western blot using MMP9 antibody on recombinant human proenzyme MMP9 (400 ng/lane).



POSITIVE CONTROL/TISSUE EXPRESSION

Colon, oesophageal and gastric tissues. Stronger expression in tumor versus normal tissue.

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. Wang, L. et al. (2006). Matrix metalloproteinase 2 (MMP2) and MMP9 secreted by erythropoietin-activated endothelial cells promote neural progenitor cell migration. *J. Neurosci.* 26(22);5996-6003
2. Solmiari, S.B., et al. (2006). Circulating MMP2 and MMP9 in breast cancer -- potential role in classification of patients into low risk, high risk, benign disease and breast cancer categories. *Int. J. Cancer.* 119(6);1403-1411
3. Chen, X., et al. (2005). Increased plasma MMP9 in integrin alpha1-null mice enhances lung metastasis of colon carcinoma cells. *Int. J. Cancer.* 116(1);52-61

PRODUCT SPECIFIC REFERENCES