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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 2 (MMP2). Mouse Monoclonal Antibody

MMP2; MMP-2; CLG4; CLG4A; Matrix metalloproteinase 2; 72 kDa Type IV collagenase precursor; 72 kDa gelatinase, Gelatinase A

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-2 (also designated type IV collagenase) cleaves Collagen Types IV, V, VII and X and gelatin type I. Activation of MMP-2 secretion requires the Ras signaling pathway.

ORDERING INFORMATION

CATALOG NUMBER

X2054M

SIZE

200 µg

FORM

Unconjugated

HOST/CLONE

Mouse Clone 4D3

FORMULATION

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

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

ELISA, Western Blot, Immunohistochemistry

SPECIES REACTIVITY

Human

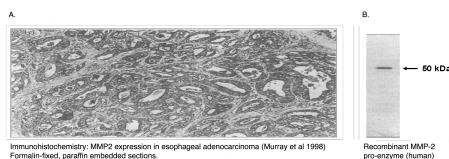
ACCESSION NUMBER

Human P08253

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 MMP2 protein and mouse myeloma Ag8563 cells.

- A. Immunohistochemical staining of human oesophageal adenocarcinoma tissue using MMP-2 antibody (Cat. No. X2054M).
B. Western blot using MMP-2 antibody on recombinant MMP-2 proenzyme (400 ng/lane).



POSITIVE CONTROL/TISSUE EXPRESSION

Oesophageal and gastric tissues. Expression higher cancerous tissue versus normal tissues.

COMMENTS

Antibody can be used for Western blotting (1-2 $\mu\text{g/ml}$) and immunohistochemistry on formalin-fixed paraffin-embedded tissue sections (1-5 $\mu\text{g/ml}$). 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. Talvensaaari-Mattila, A., et al. (2005). Prognostic value of matrix metalloproteinase-2 (MMP-2) expression in endometrial endometrioid adenocarcinoma. *Anticancer Res.* 25(6B);4101-4105.
2. Honkavuori, M., et al. (2007). MMP-2 expression associates with CA125 and clinical course in endometrial carcinoma. *Gynecol. Oncol.* 104(1);217-221.

PRODUCT SPECIFIC REFERENCES