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

www.szabo-scandic.com

linkedin.com/company/szaboscandic

ActiveMatrix 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.

Ordering Information

Catalog Number
X2057M

Size
200 µg

Form
Unconjugated

Host/Clone
Mouse Clone 4A3

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)

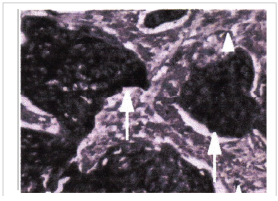
Species Reactivity
Human

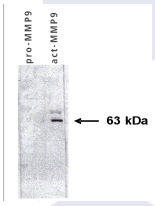
Accession Number

Human	P14780

Immunogen

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the N-terminus of the human MMP9 protein and mouse myeloma Ag8563 cells. Sequence common in rabbit, dog and pig





Left: Immunohistochemical staining of paraffin embedded esophageal tumors using Act-MMP9 antibody (Cat. No. X2057M).
Right: Western blot using MMP9 antibody on recombinant human proenzyme MMP9 (left lane) and activated enzyme (right lane).

For research use only. Not for use in human diagnostics or therapeutics.

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

Esophageal adenocarcinoma. Only present in tumor tissues.

Comments

Antibody can be used for Western blotting (1-2 μg/ml) and immunohistochemistry (1-5 μg/ml). Antibody is specific for the activated form of MMP9 only. 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. 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

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