



# 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) 

## Anti-MMP9 Antibody [S51-82]

Mouse Anti-Rat MMP9 Monoclonal IgG2a  
Catalog No. SMC-396



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

MMP9 Antibody

#### Description

Mouse Anti-Rat MMP9 Monoclonal IgG2a

#### Species Reactivity

Human, Mouse, Rat

#### Applications

WB, IHC, IP, FCM

#### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

#### Host Species

Mouse

#### Immunogen Species

Rat

#### Immunogen

Fusion protein amino acids 1-708 (full length) of rat MMP9

#### Concentration

1 mg/ml

#### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

### Properties

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#### Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S51-82

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**Isotype**

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IgG2a

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**Specificity**

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Detects ~92kDa and ~82kDa (pro and active forms).

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**Cite This Product**

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Mouse Anti-Rat MMP9 Monoclonal, Clone S51-82 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-396)

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**Certificate Of Analysis**

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1 µg/ml of SMC-396 was sufficient for detection of MMP9 in 20 µg of COS-1 cells (lysate) transfected with human MMP9 by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

MMP-9 Antibody, CLG4B Antibody, 82kDa matrix metalloproteinase-9 Antibody, collagenase type 4 beta Antibody, GELB Antibody, Macrophage gelatinase Antibody, MANDP2 Antibody, Type V collagenase Antibody, 92 kDa gelatinase Antibody, 92 kDa type IV collagenase Antibody, Gelatinase B Antibody, MMP9 Antibody, Matrix metalloproteinase 9 Antibody

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**Research Areas**

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Cancer, Apoptosis, Cardiovascular System, Cell Signaling, Neuroscience

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**Cellular Localization**

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Extracellular Matrix

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**Accession Number**

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NP\_112317.1

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**Gene ID**

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81687

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**Swiss Prot**

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P50282

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**Scientific Background**

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MMP9, otherwise known as matrix metalloproteinase 9, is involved in the breakdown of extracellular matrix in normal physiological processes such as embryonic development, reproduction and tissue remodeling, as well as in disease processes like arthritis and metastasis (1). Among the family members, MMP-2, MMP-3, MMP-7 and MMP-9 have been characterized as important factors for normal tissue remodeling during embryonic development, wound healing, tumor invasion, angiogenesis, carcinogenesis and apoptosis (2-4). MMP activity correlates with cancer development (2). One mechanism of MMP regulation is transcriptional (5). Once synthesized, MMP exists as a latent proenzyme. Maximum MMP activity requires proteolytic cleavage to generate active MMPs by releasing the inhibitory propeptide domain from the full length protein (5).

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**References**

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1. Hirose Y., et al. (2008) Am J Hum Genet. 82(5): 1122-1129.
  2. Coussens L.M., et al. (2002) Science 295: 2387-2391.
  3. Sternlicht M.D., et al. (1999) Cell 98: 137-146.
  4. Vu T.H., et al. (1998) Cell 93: 411-422.
  5. Nagase H., et al. (1990) Biochemistry 29: 5783-5789.
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## Product Images

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Currently there are no images for this product

## Product Citations (2)

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### Flow Cytometry

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#### **Age- and Location-Related Changes in Microglial Function.**

Ritzel, R.M. et al. (2015) Neurobiol Aging. 36(6):2153-63.

**PubMed ID:** 25816747 **Reactivity:** Mouse **Applications:** Flow Cytometry

### Immunocytochemistry/Immunofluorescence

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#### **Defining the Microglia Response to Ischemic Stroke Injury: The Role of CD200- CD200R1 Signaling.**

Ritzel, R.M. (2016) Doctoral Dissertations. Paper 1025.

**PubMed ID:** **Reactivity:** Mouse **Applications:** Immunocytochemistry/Immunofluorescence

## Reviews

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Based on validation through cited publications.



**StressMarq Biosciences**  
June 14, 2016: