

## Datasheet: MCA6258GA

**BATCH NUMBER 100005530**

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN MMP-3 |
| <b>Specificity:</b>  | MMP-3                  |
| <b>Other names:</b>  | Stromelysin-1          |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | Monoclonal Antibody    |
| <b>Clone:</b>        | I08-9G7                |
| <b>Isotype:</b>      | IgG1                   |
| <b>Quantity:</b>     | 0.1 mg                 |

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|       | Yes | No | Not Determined | Suggested Dilution |
|-------|-----|----|----------------|--------------------|
| ELISA | ▪   |    |                | 1.0 ug/ml          |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Human   |
| <b>Product Form</b>                   | Purified IgG - liquid   |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Carrier Free</b>                   | Yes   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |

|                                      |  |
|--------------------------------------|--|
| <b>Immunogen</b>                     | <i>E. coli</i> derived recombinant human partial length of MMP-3 (Phe100-Cys477)   |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">P08254</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">4314</a>    MMP3    <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                      | STMY1  |
| <b>Fusion Partners</b>               | Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0  |
| <b>Specificity</b>                   | <p><b>Mouse anti Human MMP-3 antibody, clone I08-9G7</b>, recognizes matrix metalloproteinase-3 (MMP-3) also known as stromelysin-1 (SL-1) and transin-1. MMP-3 is a member of the metzincins superfamily of proteases and is produced by various cells and tissues including the endothelium, vascular smooth muscle cells intima and platelets (<a href="#">Cui et al. 2017</a>).</p> <p>MMP-3 is largely expressed by connective and vascular tissues and cells due to its roles in extracellular matrix remodeling. It is synthesized as a pre-proenzyme before being processed to remove the signal peptide forming the 57 kDa pro-MMP-3. This is then further cleaved by proteolytic enzymes to create the 45 kDa active form.</p> <p>Like other MMP's, MMP-3 plays a major role in tissue remodeling through the promotion of extracellular matrix (ECM) protein turnover. Specifically MMP-3 degrades the collagen proteins, type II, IV, IX as well as the proteoglycans elastin fibronectin and laminin (<a href="#">Cui et al. 2017</a>). Through the degradation of these ECM components, growth factors and adhesion molecules, MMP-3 can modify the extracellular environment and modulate cell to cell signaling. As such, MMP-3 is implicated in synaptic plasticity through enzymatic modification of ECM constituents (<a href="#">Lech et al. 2019</a>).</p> <p>The purified Mouse anti Human MMP-3 antibody, clone I08-9G7 (MCA6258GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human MMP-3 antibody, clone G05-6A10 (<a href="#">MCA6259B</a>) as the detection antibody.</p> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>   |
| <b>Guarantee</b>                     | 12 months from date of despatch  |
| <b>Health And Safety Information</b> | <p>Material Safety Datasheet documentation #10040 available at:<br/> <a href="https://www.bio-rad-antibodies.com/SDS/MCA6258GA">https://www.bio-rad-antibodies.com/SDS/MCA6258GA</a><br/> 10040</p>  |

## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |

### Recommended Useful Reagents

[MOUSE ANTI HUMAN MMP-3:Biotin \(MCA6259B\)](#)  
[RECOMBINANT HUMAN MMP-3 \(PHP304\)](#)

### ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN MMP-3:Biotin \(MCA6259B\)](#)

### ELISA Antigen - Positive Control

[RECOMBINANT HUMAN MMP-3 \(PHP304\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
 'M386392:210521'

Printed on 16 Aug 2023