

## Datasheet: MCA6278GA

**BATCH NUMBER 100005569**

<b>Description:</b>	MOUSE ANTI HUMAN TIMP-1
<b>Specificity:</b>	TIMP-1
<b>Other names:</b>	Metalloproteinase inhibitor 1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	M03
<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).

	<b>Yes</b>	<b>No</b>	<b>Not Determined</b>	<b>Suggested Dilution</b>
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 full length TIMP-1 (Cys24-Ala207)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01033</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7076</a>    TIMP1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CLGI, TIMP
<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 TIMP-1 antibody, clone M03</b>, recognizes Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) also known as metalloproteinase inhibitor 1, EPA and fibroblast collagenase inhibitor.</p> <p>TIMP-1 is a member of the TIMP family of proteins that assist in regulating the activity of matrix metalloproteinases (MMPs) and it is mainly expressed by macrophages and fibroblasts. TIMP proteins are specific endogenous inhibitors that bind to the active site of MMPs in a stoichiometric 1:1 molar ratio, thereby blocking access to ECM substrates (<a href="#">Kapoor et al. 2016</a>, <a href="#">Robert et al. 2016</a>). The TIMP proteins including TIMP-1 have poor specificity for any particular MMP and each can inhibit multiple MMPs with differing efficacies (<a href="#">Cui et al. 2017</a>).</p> <p>The ratio of MMP and TIMP often determine the extent of ECM protein degradation and tissue remodeling. An imbalance of this ratio such as with decreased expression of TIMP can result in various pathological conditions, most notably, heart failure, osteoarthritis and cancer. Low levels of TIMP have also been associated with slow-to-heal wounds and venous wounds (<a href="#">Cui et al. 2017</a>).</p> <p>The purified Mouse anti Human TIMP-1 antibody, clone M03 (MCA62678GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human TIMP-1 antibody, clone M05 (<a href="#">MCA6279B</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:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA6278GA">https://www.bio-rad-antibodies.com/SDS/MCA6278GA</a>  10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</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> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Useful Reagents

[MOUSE ANTI HUMAN TIMP-1:Biotin \(MCA6279B\)](#)

### ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN TIMP-1:Biotin \(MCA6279B\)](#)

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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)  
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