

Datasheet: MCA6278GA

Description:	MOUSE ANTI HUMAN TIMP-1
Specificity:	TIMP-1
Other names:	Metalloproteinase inhibitor 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M03
Isotype:	IgG1
Quantity:	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.

	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.

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

Immunogen	<i>E. coli</i> derived recombinant human full length TIMP-1 (Cys24-Ala207)
External Database Links	<p>UniProt: P01033 Related reagents</p> <p>Entrez Gene: 7076 TIMP1 Related reagents</p>
Synonyms	CLGI, TIMP
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human TIMP-1 antibody, clone M03, 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 (Kapoor <i>et al.</i> 2016, Robert <i>et al.</i> 2016). The TIMP proteins including TIMP-1 have poor specificity for any particular MMP and each can inhibit multiple MMPs with differing efficacies (Cui <i>et al.</i> 2017).</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 (Cui <i>et al.</i> 2017).</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 (MCA6279B) as the detection antibody.</p>
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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