

Datasheet: MCA6279B

BATCH NUMBER 100005570

Description:	MOUSE ANTI HUMAN TIMP-1:Biotin
Specificity:	TIMP-1
Other names:	Metalloproteinase inhibitor 1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	M05
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 conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human full length TIMP-1 (Cys24-Ala207)

External Database Links	UniProt: P01033 Related reagents
	Entrez Gene: 7076 TIMP1 Related reagents
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 M05, 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 et al. 2016, Robert et al. 2016). The TIMP proteins including TIMP-1 have poor specificity for any particular MMP and each can inhibit multiple MMPs with differing efficacies (Cui et al. 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 et al. 2017).</p> <p>The biotinylated Mouse anti Human TIMP-1 antibody, clone M05 (MCA62779B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human TIMP-1 antibody, clone M03 (MCA6278GA) as the capture antibody.</p>
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6279B 10041</p>
Regulatory	For research purposes only

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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