

Datasheet: MCA6259B

Description:	MOUSE ANTI HUMAN MMP-3:Biotin				
Specificity:	MMP-3				
Other names:	Stromelysin-1				
Format:	Biotin				
Product Type:	Monoclonal Antibody				
Clone:	G05-6A10				
lsotype:	lgG1				
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 <u>www.bio-rad-antibodies.com/protocols</u> .							
		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 - I	iquid					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant							
Buffer Solution	Phosphate buffered salir	ie						
Preservative	0.09% Sodium Azide (Na	aN ₃)						
Stabilisers	1% Bovine Serum Album	0,						
Approx. Protein Concentrations	IgG concentration 0.1 m	g/ml						
Immunogen	E. coli derived recombina	ant human	partial le	ngth of MMP-3 (Phe1	00-Cys477)			

External Database								
Links	UniProt: P08254 Related reagents							
	Entrez Gene:							
	4314 MMP3 Related reagents							
Synonyms	STMY1							
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0							
Specificity	 Mouse anti Human MMP-3 antibody, clone G05-6A10, 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 (Cui et al. 2017). 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. 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 (Cui et al. 2017). 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 (Lech et al. 2019). 							
	The biotinylated Mouse anti Human MMP-3 antibody, clone G05-6A10 (MCA6259B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human MMP-3 antibody, clone I08-9G7 (<u>MCA6258GA</u>) as the capture antibody.							
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store a -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.							
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.							
Guarantee	12 months from date of despatch							
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6259B 10041							
Regulatory	For research purposes only							

Related Products

Recommended Useful Reagents

MOUSE ANTI HUMAN MMP-3 (MCA6258GA) RECOMBINANT HUMAN MMP-3 (PHP304)

ELISA Matched Pair - Capture Antibody

MOUSE ANTI HUMAN MMP-3 (MCA6258GA)

ELISA Antigen - Positive Control

RECOMBINANT HUMAN MMP-3 (PHP304)

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M390619:210924'

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