

Datasheet: MCA6258GA

BATCH NUMBER 100005530

Description:	MOUSE ANTI HUMAN MMP-3
Specificity:	MMP-3
Other names:	Stromelysin-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	I08-9G7
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 partial length of MMP-3 (Phe100-Cys477)
External Database Links	<p>UniProt: P08254 Related reagents</p> <p>Entrez Gene: 4314 MMP3 Related reagents</p>
Synonyms	STMY1
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human MMP-3 antibody, clone I08-9G7, 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).</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 (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).</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 (MCA6259B) as the detection 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6258GA</p> <p>10040</p>

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

ELISA Antigen - Positive Control

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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
'M386392:210521'

Printed on 28 Apr 2025