

Datasheet: MCA6254GA

BATCH NUMBER 100005239

Description:	MOUSE ANTI HUMAN MMP-1
Specificity:	MMP-1
Other names:	Interstitial collagenase
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F08-2F1
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-1 (Phe100-Thr274)
External Database Links	<p>UniProt: P03956 Related reagents</p> <p>Entrez Gene: 4312 MMP1 Related reagents</p>
Synonyms	CLG
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human MMP-1 antibody, clone F08-2F1, recognizes matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase. MMP-1 is a 45 kDa protein in its active form and is a member of the metzincins superfamily of proteases. It is produced by various cells and tissues including the endothelium, fibroblasts, smooth muscle cells, vascular adventitia and platelets (Cui et al. 2017).</p> <p>MMP-1 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 pro-MMP-1. This is then further cleaved by proteolytic enzymes to create the active form. Like other MMP's, MMP-1 plays a major role in tissue remodeling through the promotion of extracellular matrix (ECM) protein turnover. Specifically MMP-1 degrades the collagen proteins type I, II, III, VII, VIII, X and gelatin. It is also able to target other ECM substrates including aggrecan, nidogen and perlecan (Cui et al. 2017).</p> <p>MMP1 expression levels are low in most cells under physiological conditions, but are upregulated during inflammatory conditions and autoimmune diseases (Mittal et al. 2016). For example a single nucleotide polymorphism of MMP-1 at the promoter region has been associated with an increased risk of sudden deafness linked to circulatory disturbance and inflammation (Nam et al. 2011).</p> <p>The purified Mouse anti Human MMP-1 antibody, clone F08-2F1 (MCA6254GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human MMP-1 antibody, clone F09-3C7 (MCA6255B) 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	Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA6254GA>
10040

Regulatory For research purposes only

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](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[MOUSE ANTI HUMAN MMP-1:Biotin \(MCA6255B\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN MMP-1:Biotin \(MCA6255B\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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