

Datasheet: MCA6196GA

Description:	MOUSE ANTI HUMAN MMP-9
Specificity:	MMP-9
Other names:	Matrix metalloproteinase-9
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	I13-2E1
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 fragment of human MMP-9 (Gly373-Pro456)
External Database Links	<p>UniProt: P14780 Related reagents</p> <p>Entrez Gene: 4318 MMP9 Related reagents</p>
Synonyms	CLG4B
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human MMP-9 antibody, clone I13-2E1, recognizes matrix metalloproteinase 9 (MMP-9) also known as 92 kDa gelatinase and 92 kDa type IV collagenase. MMP-9 is a member of the zinc-dependent endopeptidases and is expressed in various cell types, including neutrophils, macrophages, fibroblasts and endothelial cell (Huang 2018). Expression of MMP-9 is induced by pro-inflammatory cytokines and is synthesized as a pre-proenzyme with a 19 amino acid N-terminal signal peptide. It can then be secreted by the cell into the extracellular environment where it is modified into the inactive pro-MMP9. At this point it can be activated by various proteases such as MMP-3, to generate the activated 82 kDa form (Vandooren et al. 2013). Activated MMP-9 can proteolytically cleave many extracellular matrix proteins including gelatin, collagen and elastin as part of extracellular matrix remodeling.</p> <p>Overexpression of MMP-9 has been observed in a range of malignant tumors and its' extracellular matrix remodeling has been linked with mediating tumor invasion, metastasis, angiogenesis and regulating the tumor microenvironment (Huang 2018). MMP-9 has also been associated with other pathologies including autoimmune and cardiovascular diseases.</p> <p>The purified Mouse anti Human MMP-9 antibody, clone I13-2E1 (MCA6196GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human MMP-9 antibody, clone B10-7B9 (MCA6197B) 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: https://www.bio-rad-antibodies.com/SDS/MCA6196GA 10040

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 MMP-9:Biotin \(MCA6197B\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN MMP-9:Biotin \(MCA6197B\)](#)

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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
'M390609:210924'

Printed on 18 Jan 2024