

Datasheet: MCA6196GA

BATCH NUMBER 100005328

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>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/MCA6196GA 10040</p>
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-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
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