

## Datasheet: MCA6257B

**BATCH NUMBER 100005183**

<b>Description:</b>	MOUSE ANTI HUMAN MMP-2:Biotin
<b>Specificity:</b>	MMP-2
<b>Other names:</b>	72 kDa type IV collagenase
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	J08-3B10
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human partial length of MMP-2 (Tyr110-Thr465)

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P08253</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">4313</a> MMP2 <a href="#">Related reagents</a>
<b>Synonyms</b>	CLG4A
<b>Fusion Partners</b>	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
<b>Specificity</b>	<p><b>Mouse anti Human MMP-2 antibody, clone J08-3B10</b>, recognizes matrix metalloproteinase-2 also known as 72 kDa type IV collagenase, 72 kDa gelatinase and gelatinase A. MMP-2 is a member of the metzincins superfamily of proteases and is produced by various cells and tissues including the endothelium, vascular smooth muscle cells, adventitia platelets and leukocytes (<a href="#">Cui et al. 2017</a>).</p> <p>MMP-2 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 72 kDa pro-MMP-2. Pro-MMP-2 is then recruited to the cell surface where it undergoes autocatalytic cleavage to form the active 63 kDa form.</p> <p>Like other MMP's, MMP-2 plays a major role in tissue remodeling through the promotion of extracellular matrix (ECM) protein turnover. Specifically MMP-2 degrades the collagen proteins, type I, II, III, IV, V, VII, X, XI and gelatin. It is also able to target other ECM substrates including aggrecan, elastin, fibronectin and laminin (<a href="#">Cui et al. 2017</a>). However a number of non-matrix proteins have been identified as targets of MMP-2, to regulate various physiological and pathophysiological processes including embryonic growth/development, angiogenesis, vascular diseases, inflammation, infective diseases and tumor progression. MMP-2 may also play a role in airway remodeling and may be responsible for the progressive decline of lung function in bronchial asthma (<a href="#">Kuwabara et al. 2018</a>).</p> <p>The biotinylated Mouse anti Human MMP-2 antibody, clone J08-3B10 (MCA6257B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human MMP-2 antibody, clone C12-8A3 (<a href="#">MCA6256GA</a>) as the capture antibody.</p>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6257B">https://www.bio-rad-antibodies.com/SDS/MCA6257B</a></p>

10041

---

**Regulatory**

For research purposes only

---

## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN MMP-2 \(MCA6256GA\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://bio-rad-antibodies.com/datasheets)

'M378818:210304'

**Printed on 18 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)