

Datasheet: VMA00180

Description:	MOUSE ANTI MMP-2
Specificity:	MMP-2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	4D1E2
Isotype:	IgG1
Quantity:	100 µl

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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from ascites.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Purified recombinant fragment of human MMP-2, amino acids 242-396, expressed in <i>E. coli</i>

**External Database
Links**

UniProt:

[P08253](#)

[Related reagents](#)

Entrez Gene:

[4313](#)

MMP2

[Related reagents](#)

Synonyms

CLG4A

Specificity

Mouse anti Human MMP-2 antibody recognizes matrix metalloproteinase-2 (MMP-2), also known as 72 kDa type IV collagenase, collagenase type IV-A, matrix metalloproteinase-II and neutrophil gelatinase.

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The MMP2 gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in MMP-2 have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for MMP2 (provided by RefSeq, Jul 2008).

Mouse anti Human MMP-2 antibody detects a band of 74 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti MMP-2 detects a band of approximately 74 kDa in HeLa cell lysates.

Storage

This product is shipped at ambient temperature.
Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00180>
Antibody (10040)

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

'M441724:250523'

Printed on 23 May 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)