

Datasheet: MCA6261B

Description:	MOUSE ANTI HUMAN MYELOPEROXIDASE:Biotin
Specificity:	MYELOPEROXIDASE
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	D08-8G5
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 conjugated to Biotin - 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) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Purified native human myeloperoxidase
External Database Links	UniProt:

[P05164](#) [Related reagents](#)

Entrez Gene:

[4353](#) MPO [Related reagents](#)

Fusion Partners Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity **Mouse anti Human myeloperoxidase antibody, clone D08-8G5**, recognizes myeloperoxidase (MPO), a heme-containing enzyme belonging to the XPO subfamily of peroxidases. It is largely expressed by neutrophils within azurophilic granules, but is also present in monocytes, macrophages and central nervous microglial cells ([Strzepa et al. 2017](#)). MPO is synthesized as a precursor protein that undergoes a series of modifications including cleavage and glycosylation to form the catalytically inactive MPO precursor. Subsequently an iron-heme is incorporated into the protein resulting in the catalytically active MPO ([Hansson et al. 2006](#)).

In response to bacterial infection, neutrophils containing MPO fuse with the phagosome and when the common membrane is ruptured, MPO is released into the phagosome. MPO then uses H₂O₂ to generate the bactericidal compound, hypochlorous acid (HClO) ([Strzepa et al. 2017](#)).

MPO deficiency is associated with a higher occurrence of severe infections and chronic inflammatory processes, although ~50% of individuals are asymptomatic ([Antachopoulos 2010](#)).

The biotinylated Mouse anti Human myeloperoxidase antibody, clone D08-8G5 (MCA6261B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human myeloperoxidase antibody, clone D02-2A1 ([MCA6260GA](#)) as the capture antibody.

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6261B>
10041

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN MYELOPEROXIDASE \(MCA6260GA\)](#)

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN MYELOPEROXIDASE \(MCA6260GA\)](#)

North & South Tel: +1 800 265 7376

America 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

'M390621:210924'

Printed on 19 Jan 2024

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