

Datasheet: MCA6261B

**BATCH NUMBER 100005434**

<b>Description:</b>	MOUSE ANTI HUMAN MYELOPEROXIDASE:Biotin
<b>Specificity:</b>	MYELOPEROXIDASE
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	D08-8G5
<b>Isotype:</b>	IgG1
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Purified native human myeloperoxidase

**External Database  
Links**

**UniProt:**

[P05164](#)   [Related reagents](#)

**Entrez Gene:**

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

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

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**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 H<sub>2</sub>O<sub>2</sub> 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.

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**Storage**   Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
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.

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**Guarantee**   12 months from date of despatch

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

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## Related Products

### Recommended Useful Reagents

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

## ELISA Matched Pair - Capture Antibody

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

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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](https://bio-rad-antibodies.com/datasheets)

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