

Datasheet: MCA6261B

BATCH NUMBER 100005434

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
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Specificity	<p>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 <i>et al.</i> 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 <i>et al.</i> 2006).</p>
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In response to bacterial infection, neutrophils containing MPO fuse with the phagosome and when the common membrane is ruptured, MPO is release 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	<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>
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Guarantee	12 months from date of despatch
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Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6261B 10041</p>
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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

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