

Datasheet: MCA6260GA

Description:	MOUSE ANTI HUMAN MYELOPEROXIDASE
Specificity:	MYELOPEROXIDASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	D02-2A1
lsotype:	lgG1
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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determine	d 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 u	se in such	procedur	es. Suggested wo	orking dilutions are given as		
	a guide only. It is recomm	nended that	it the use	er titrates the prod	luct for use in their own		
	system using appropriate	e negative/	positive c	ontrols.			
Target Species	Human						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered salin	ie					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					
Carrier Free	Yes						
Approx. Protein Concentrations	IgG concentration 1.0 mg	g/ml					
Immunogen	Purified native human m	yeloperoxic	lase				

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 D02-2A1, 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).					
	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 (HCIO) (<u>Strzepa <i>et al.</i> 2017</u>).					
	MPO deficiency is associated with a higher occurrence of severe infections and chronic inflammatory processes, although ~50% of individuals are asymptomatic (<u>Antachopoulos 2010</u>).					
	The purified Mouse anti Human myeloperoxidase antibody, clone D02-2A1 (MCA6260GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human myeloperoxidase antibody, clone D08-8G5 (MCA6261B) as the detection 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6260GA 10040					
Regulatory	For research purposes only					

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP
Rabbit Anti Mouse IgG (STAR12)	RPE
Rabbit Anti Mouse IgG (STAR8)	DyLight®800
Goat Anti Mouse IgG (STAR76)	RPE
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,
	DyLight®650, DyLight®680, DyLight®800,
	<u>FITC, HRP</u>

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents

MOUSE ANTI HUMAN MYELOPEROXIDASE:Biotin (MCA6261B)

ELISA Matched Pair - Detection Antibody

MOUSE ANTI HUMAN MYELOPEROXIDASE:Biotin (MCA6261B)

North & South	Tel: +1 800 265 7376 Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-ra	id.com	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 ^{M390620:210924'}

Printed on 19 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint