

Datasheet: MCA1757T

Description:	MOUSE ANTI HUMAN MYELOPEROXIDASE
Specificity:	MYELOPEROXIDASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2C7
Isotype:	IgG1
Quantity:	20 µg

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
Flow Cytometry (1)	▪			1/50 - 1/100
Immunohistology - Frozen	▪			1/1000 - 1/5000
Immunohistology - Paraffin	▪			1/500 - 1/1000
ELISA	▪			

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.

(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Dog</p> <p>Does not react with: Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human myeloperoxidase
External Database Links	<p>UniProt: P05164 Related reagents</p> <p>Entrez Gene: 4353 MPO Related reagents</p>
RRID	AB_2146465
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse X63 AG8-653 myeloma cell line
Specificity	<p>Mouse anti Human myeloperoxidase antibody, clone 2C7 recognizes human myeloperoxidase (MPO). MPO is an important component of azurophilic granules in neutrophils, being involved in microbicidal processes. The protein is a multimer of 2 heavy chains (55 kDa) and two light chains (15 kDa), the heavy chains being linked by a disulphide bond.</p> <p>Mouse anti Human Myeloperoxidase antibody, clone 2C7 recognizes native MPO in Western blots, and the heavy chain following boiling of the sample. Mouse anti Human Myeloperoxidase antibody, clone 2C7 also recognizes recombinant MPO in western blots and weakly in ELISA.</p> <p>Mouse anti Human myeloperoxidase antibody, clone 2C7 may be of value in the study of myeloid cells and myeloid leukaemias by flow cytometry following cell permeabilization. Mouse anti Human myeloperoxidase antibody, clone 2C7 did not recognize rat MPO by ELISA (Patry et al. 2003).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
Histology Positive Control Tissue	Human bone marrow
References	<ol style="list-style-type: none"> 1. Patry, Y.C. <i>et al.</i> (2003) Difference in antigenic determinant profiles between human and rat myeloperoxidase. Clin Exp Immunol. 132 (3): 505-8. 2. Sloane, A.J. <i>et al.</i> (2005) Proteomic analysis of sputum from adults and children with cystic fibrosis and from control subjects. Am J Respir Crit Care Med. 172: 1416-26.

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12. Helseth, R. *et al.* (2019) Glucose associated NETosis in patients with ST-elevation myocardial infarction: an observational study. [BMC Cardiovasc Disord. 19 \(1\): 221.](#)
13. Manfredi, A.A. *et al.* (2021) Platelet phagocytosis via PSGL1 and accumulation of microparticles in systemic sclerosis. [Arthritis Rheumatol. Jul 19 \[Epub ahead of print\].](#)
14. de Moraes Mazetto, B. *et al.* (2022) Association between neutrophil extracellular traps (NETs) and thrombosis in antiphospholipid syndrome [Thrombosis Res. 214: 132-7.](#)
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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/MCA1757T>
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Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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