Datasheet: MCA1757T

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN MYELOPEROXIDASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>MYELOPEROXIDASE</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>2C7</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>20 µg</td>
</tr>
</tbody>
</table>

**Product Details**

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.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
<td>1/50 - 1/100</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/1000 - 1/5000</td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
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<td></td>
<td></td>
<td>1/500 - 1/1000</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
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</tr>
</tbody>
</table>

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 permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.**

**Target Species**

- Human

**Species Cross Reactivity**

- Reacts with: Dog
- Does not react with: Rat

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

- Purified IgG - liquid

**Preparation**

- Purified IgG prepared by affinity chromatography on Protein A

**Buffer Solution**

- Phosphate buffered saline

**Preservative Stabilisers**

- 0.09% Sodium Azide

**Carrier Free**

- Yes

**Approx. Protein Concentrations**

- IgG concentration 1.0 mg/ml
Immunogen: Human myeloperoxidase

External Database Links
- UniProt: P05164
- Entrez Gene: 4353

Related reagents

Fusion Partners
Spleen cells from immunized mice were fused with cells of the mouse X63 AG8-653 myeloma cell line.

Specificity
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.

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.

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).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

Histology Positive Control Tissue
Bone marrow

References
Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety


Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)