Datasheet: MCA1757

Description: MOUSE ANTI HUMAN MYELOPEROXIDASE
Specificity: MYELOPEROXIDASE
Format: Purified
Product Type: Monoclonal Antibody
Clone: 2C7
Isotype: IgG1
Quantity: 0.2 mg

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).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
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<td></td>
<td></td>
<td>1/50 - 1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>1/1000 - 1/5000</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>1/500 - 1/1000</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting (2)</td>
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Where this antibody 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 antibody 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.

(2) 2C7 recognises myeloperoxidase under non-reducing conditions, see [Audrian et al.](#) for details

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 Related reagents
- Entrez Gene: 4353 MPO 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).

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 Information**


**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)

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