Datasheet: MCA2260

**Description:** RAT ANTI RITUXIMAB

**Specificity:** RITUXIMAB

**Other names:** MabThera®, Rituxan®

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** MB2A4

**Isotype:** IgG2a

**Quantity:** 0.2 mg

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### 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.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>50 ug/ml</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>5 ug/ml as coating antibody</td>
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</table>

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.

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** TRIS buffered saline

**Preservative** 0.09% Sodium Azide

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

**Immunogen** F(ab)₂ fragment of Rituximab.

**Fusion Partners** Spleen cells from immunised rats were fused with cells of the NS-1 mouse myeloma cell line.

**Specificity** Rat anti rituximab antibody, clone MB2A4, specifically recognizes the idiotypic determinants expressed by the rituximab chimeric monoclonal antibody. Rituximab is a therapeutic reagent directed against the human CD20 antigen expressed on the surface of B-cells.
Rat anti rituximab antibody, clone MB2A4, is specific for rituximab and does not recognize other CD20 antibodies. Clone MB2A4 has been used in ELISA assays to monitor the levels of rituximab in patient serum following therapy (Cragg et al. 2004 and Hampson et al. 2010). Clone MB2A4 has been used to detect rituximab bound to the surface of the Raji B cell line, however detection of rituximab bound in vivo to B-CLL cells has not been demonstrated. It is possible that complement deposition on rituximab opsonised cells inhibits binding of the anti-rituximab antibody to cell bound rituximab (Beum et al. 2004).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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.

### Acknowledgements
Rituxan® is a registered trademark of Biogen Idec/Genentech in the USA.
MabThera ® is a registered trademark of Roche in Europe

### Health And Safety Information
Material Safety Datasheet Documentation #10057 available at:

### Regulatory
For research purposes only

### Related Products

#### Recommended Secondary Antibodies
- Goat Anti Rat IgG (STAR73...) **RPE**
- Goat Anti Rat IgG (STAR69...) **FITC**
- Rabbit Anti Rat IgG (STAR17...) **FITC**
- Rabbit Anti Rat IgG (STAR20...) **RPE**

#### Recommended Negative Controls
RAT IgG2a NEGATIVE CONTROL (MCA1124)

#### Recommended Useful Reagents
- HUMAN ANTI RITUXIMAB (HCA061)
- HUMAN ANTI RITUXIMAB:HRP (HCA061P)
- HUMAN ANTI RITUXIMAB (HCA062)
- HUMAN ANTI RITUXIMAB:HRP (HCA062P)
- HUMAN ANTI RITUXIMAB (HCA186)