Datasheet: MCA342F

**Description:** MOUSE ANTI RAT CD163:FITC

**Specificity:** CD163

**Other names:** ED2

**Format:** FITC

**Product Type:** Monoclonal Antibody

**Clone:** ED2

**Isotype:** IgG1

**Quantity:** 0.1 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></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>Neat - 1/10</td>
</tr>
</tbody>
</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 in their own system using appropriate negative/positive controls.

**Target Species**

Rat

**Product Form**

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>520</td>
</tr>
</tbody>
</table>

**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

1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.1 mg/ml

**Immunogen**

Rat Spleen cell homogenate.

**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.
### Specificity

Mouse anti Rat CD163, clone ED2 recognises the rat ED2 cell surface glycoprotein (Dijkstra et al. 1985). A 175 kDa molecule also known as rat CD163, a member of the group B scavenger receptor cysteine-rich (SRCR) family and an erythroblast adhesion receptor (Fabriek et al. 2007).

Mouse anti rat CD163, clone ED2 was shown to detect approximately 50% of peritoneal macrophages, a subset of splenic macrophages, and most tissue macrophages. However, no staining was observed in monocytes or alveolar macrophages (Dijkstra et al. 1985, Beelen et al. 1987). In freshly isolated bone marrow, expression of CD163 was limited to mature macrophages only (Barbe et al. 1990).

Clone ED2 may be used in immunohistology using antigen retrieval, and has also been described reacting with paraffin-embedded material following PLP fixation (Periodate-lysine-paraformaldehyde), see Whiteland et al.

### Flow Cytometry

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

### References

15. Wojcik, M. et al. (2012) Immunodetection of cyclooxygenase-2 (COX-2) is restricted to


36. Han, T.T. *et al.* (2015) Adipose-derived stromal cells mediate in vivo adipogenesis,


**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. This product is photosensitive and should be protected from light.

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

© 2017 Bio-Rad Laboratories Inc | Legal | Imprint