Datasheet: MCA2317F

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI PIG MACROPHAGES:FITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>MACROPHAGES</td>
</tr>
<tr>
<td>Format</td>
<td>FITC</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>BA4D5</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG2b</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

RRID AB_567110

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>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
<td>Neat</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. 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.

Target Species Pig

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

Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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</tbody>
</table>

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

Buffer Solution Phosphate buffered saline

Preservative Stabilisers

<table>
<thead>
<tr>
<th>%</th>
<th>Stabiliser</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.09</td>
<td>Sodium Azide</td>
</tr>
<tr>
<td>1</td>
<td>Bovine Serum Albumin</td>
</tr>
</tbody>
</table>

Approx. Protein Concentrations IgG concentration 0.1 mg/ml

Immunogen Porcine alveolar macrophages.

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

**Mouse anti Pig Macrophages antibody, clone BA4D5** recognizes porcine cells of the monocyte/macrophage lineage. Expression of the antigen is increased with maturation, with higher expression on peritoneal and alveolar macrophages.

Some expression has also been observed on peripheral blood lymphocytes.

The antigen recognized by clone BA4D5 has a broad tissue distribution and this antibody stains macrophages in a range of tissues, including the thymus, spleen periaorteriolar lymphoid sheath (PALS), spleen red pulp and the Peyer’s patches. Expression has also been reported on some non-heamatopoietic cells including endothelial cells.

It is believed that clone BA4D5 may be specific for porcine CD68, although the protein recognized by this antibody has not yet been fully characterized. The protein is expressed on the cell surface, although it is most abundantly expressed in the cytoplasm.

### Flow Cytometry

Use 10μl of the suggested working dilution to 1x10^6 cells in 100ul.

### References


### Further Reading


### 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.

Guarantee
18 months from date of despatch.

Health And Safety
Information
Material Safety Datasheet documentation #10041 available at:

Regulatory
For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL: FITC (MCA691F)