Datasheet: MCA2311F

Product Details

**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>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>Neat - 1/10</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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species**
Pig

**Product Form**
Purified IgG conjugated to Fluorescin 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>
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<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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</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**
Porcine alveolar macrophages.

**External Database Links**

- UniProt: [Q2VL90](http://www.uniprot.org/uniprot/Q2VL90)  Related reagents
M130

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag.8.653 myeloma cell line.

Specificity

Mouse anti Pig CD163 antibody, clone 2A10/11 recognises porcine CD163, a ~120 kDa single pass type 1 transmembrane cell surface glycoprotein expressed on cells of the monocyte/macrophage lineage. The expression levels of CD163 vary during the course of macrophage differentiation. The highest levels of CD163 expression are found on tissue macrophages but bone marrow derived cells are CD163 negative. Expression of CD163 on peripheral blood monocytes varies between about 5% and 50% depending on the donor (Sanchez et al. 1999).

Mouse anti Pig CD163, clone 2A10/11 is reported to inhibit both African swine fever infection and viral particle binding to alveolar macrophages in a dose-dependent manner (Sanchez-Torres et al. 2003).

Flow Cytometry

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

References

14. Costa-Hurtado, M. et al. (2013) Changes in macrophage phenotype after infection of pigs with...
Haemophilus parasuis strains with different levels of virulence. *Infect Immun.* 81 (7): 2327-33.

**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.

Shelf Life
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 IgG1 NEGATIVE CONTROL:FITC (MCA928F)**

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

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Tel: +44 (0)1865 852 700
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