Datasheet: MCA2311PE

Description: MOUSE ANTI PIG CD163:RPE

Specificity: CD163

Format: RPE

Product Type: Monoclonal Antibody

Clone: 2A10/11

Isotype: IgG1

Quantity: 100 TESTS

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.

<table>
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<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
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<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 R. Phycoerythrin (RPE) - lyophilized

Reconstitution  Reconstitute with 1.0ml distilled water

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Emission Max (nm)</th>
<th>Excitation Max (nm)</th>
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<tr>
<td>RPE 488nm laser</td>
<td>578</td>
<td>496</td>
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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
  5% Sucrose

Immunogen  Porcine alveolar macrophages.

External Database Links

UniProt: Q2VL90

Entrez Gene: 397031 CD163
Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag.8.653 myeloma cell line.

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.


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**Further Reading**


**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

12 months from date of despatch.

**Health And Safety Information**

Material Safety Datasheet documentation available at:

Material Safety Datasheet Documentation #10075 available at:

**Regulatory**

For research purposes only

**Related Products**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)