

## Datasheet: MCA6112F

**BATCH NUMBER 166603**

<b>Description:</b>	MOUSE ANTI PIG CD205:FITC
<b>Specificity:</b>	CD205
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ZH9F7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

### 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).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/5

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

<b>Immunogen</b>	Pig CD205
<b>Specificity</b>	<p><b>Mouse anti Pig CD205, clone ZH9F7</b> recognizes the endocytic receptor CD205, also known as DEC205.</p> <p>CD205 is expressed at high levels by dendritic cell (DC) subsets and can be detected on thymic epithelial cells (Flores-Mendoza <i>et al.</i> 2010). CD205 is also expressed on monocytes and can be detected at low levels on lymphocytes.</p> <p>Mouse anti Pig CD205 antibody, clone ZH9F7, has been used in characterization of the species-conserved features of the cDC1 subset. This subset is characterized by high surface expression of CD205, CD135, CADM1, low levels of CD172a, a lack of CD115, XCR1, and BATF3; and restricted APN gene expression (Auray <i>et al.</i> 2016). CD205 receptor expression was confirmed in cDC1 and cDC2 subsets using flow cytometry on porcine tonsil, submaxillary and mesenteric lymph nodes, and spleen lymphoid tissues (Parra-Sanchez <i>et al.</i> 2018).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Auray, G. <i>et al.</i> (2016) Characterization and Transcriptomic Analysis of Porcine Blood Conventional and Plasmacytoid Dendritic Cells Reveals Striking Species-Specific Differences. <a href="#">J Immunol. 197 (12): 4791-806.</a></li> <li>2. Parra-Sánchez, H. <i>et al.</i> (2018) Characterization and expression of DEC205 in the cDC1 and cDC2 subsets of porcine dendritic cells from spleen, tonsil, and submaxillary and mesenteric lymph nodes. <a href="#">Mol Immunol. 96: 1-7.</a></li> <li>3. Bustamante-Córdova, L. <i>et al.</i> (2019) Evaluation of a Recombinant Mouse X Pig Chimeric Anti-Porcine DEC205 Antibody Fused with Structural and Nonstructural Peptides of PRRS Virus. <a href="#">Vaccines (Basel). 7 (2): 43.</a></li> <li>4. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. <a href="#">Cells. 12 (16) :2103.</a></li> </ol>
<b>Further Reading</b>	1. Lilian, F. <i>et al.</i> (2010) Characterization of porcine CD205 <a href="#">Developmental &amp; Comparative Immunology. 34 (7): 715-721.</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6112F">https://www.bio-rad-antibodies.com/SDS/MCA6112F</a> 10041
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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