

## Datasheet: MCA2307F

<b>Description:</b>	MOUSE ANTI PIG CD5:FITC
<b>Specificity:</b>	CD5
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	1H6/8
<b>Isotype:</b>	IgG2a
<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 - 1/10
Immunoprecipitation	▪			
Western Blotting	▪			

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 G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> ) 1% bovine serum albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

<b>Immunogen</b>	ConA/PMA activated porcine peripheral blood cells.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9GMA0</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_566839
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Pig CD5 antibody, clone 1H6/8</b> recognizes pig CD5. Clone 1H6/8 was clustered as CD5a at the Second International Swine CD antigen Workshop (<a href="#">Saalmuller et al. 1998</a>), based on its cellular distribution, ability to completely inhibit the binding of monoclonal antibody clone b53b7, the internal control for the second workshop and the immunoprecipitation of the same 55 kDa + 60 kDa doublet as the control antibody (<a href="#">Pescowitz et al. 1998</a>). Porcine CD5 is expressed by all circulating peripheral blood T lymphocytes and some B cells. CD5 is not expressed by porcine <math>\gamma/\delta</math> T cells (<a href="#">Saalmuller et al. 1994</a>) and can hence be used for the discrimination between NK cells (CD4- CD8+ CD5-) and MHC-restricted cytotoxic T cells (CD4- CD8+ CD5+).</p> <p>No reactivity of Mouse anti Pig CD5 antibody, clone 1H6/8 was noted with canine, bovine, equine or human tissue samples (<a href="#">Doménech et al. 2003</a>).</p>
<b>Flow Cytometry</b>	Use 10 $\mu$ l of the suggested working dilution to 1x10 <sup>6</sup> cells in 100 $\mu$ l
<b>References</b>	<ol style="list-style-type: none"> <li>Pescovitz, M.D. <i>et al.</i> (1998) Analyses of monoclonal antibodies reacting with porcine CD5: results from the Second International Swine CD Workshop. <a href="#">Vet Immunol Immunopathol. 60 (3-4): 269-73.</a></li> <li>Saalmüller, A. <i>et al.</i> (1998) Overview of the Second International Workshop to define swine cluster of differentiation (CD) antigens. <a href="#">Vet Immunol Immunopathol. 60 (3-4): 207-28.</a></li> <li>Doménech, N. <i>et al.</i> (2003) A new epitope on swine CD5 molecule detected by monoclonal antibody 5F12/9. <a href="#">Hybrid Hybridomics. 22 (3): 179-82.</a></li> <li>Sánchez-Torres, C. <i>et al.</i> (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. <a href="#">Arch Virol. 148 (12): 2307-23.</a></li> <li>Forner, R. <i>et al.</i> (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. <a href="#">PLoS One. 16 (5): e0249366.</a></li> <li>Skovdal, S.M. <i>et al.</i> (2019) Inhaled nebulized glatiramer acetate against Gram-negative bacteria is not associated with adverse pulmonary reactions in healthy, young adult female pigs. <a href="#">PLoS One. 14 (10): e0223647.</a></li> <li>Jarosz, Ł. <i>et al.</i> (2021) The Effect of Feed Supplementation with EM Bokashi<sup>®</sup> Multimicrobial Probiotic Preparation on Selected Parameters of Sow Colostrum and Milk as Indicators of the Specific and Nonspecific Immune Response. <a href="#">Probiotics Antimicrob Proteins. Oct 01 [Epub ahead of print].</a></li> <li>Haach, V. <i>et al.</i> (2023) A polyvalent virosomal influenza vaccine induces broad cellular and humoral immunity in pigs. <a href="#">Virol J. 20 (1): 181.</a></li> </ol>

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**Further Reading** 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2307F>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

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**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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**Europe**

Tel: +49 (0) 89 8090 95 21

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M414369:221206'

**Printed on 18 Jan 2024**

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