

## Datasheet: MCA2307F

**BATCH NUMBER 150616**

<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 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.

<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</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein</b>	IgG concentration 0.1 mg/ml		

## Concentrations

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**Immunogen** ConA/PMA activated porcine peripheral blood cells.

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**External Database Links**

**UniProt:**  
[Q9GMA0](#)    [Related reagents](#)

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**RRID** AB\_566839

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

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**Specificity**

**Mouse anti Pig CD5 antibody, clone 1H6/8** recognizes pig CD5. Clone 1H6/8 was clustered as CD5a at the Second International Swine CD antigen Workshop ([Saalmuller et al. 1998](#)), 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 ([Pescovitz et al. 1998](#)). Porcine CD5 is expressed by all circulating peripheral blood T lymphocytes and some B cells. CD5 is not expressed by porcine  $\gamma/\delta$  T cells ([Saalmuller et al. 1994](#)) and can hence be used for the discrimination between NK cells (CD4- CD8+ CD5-) and MHC-restricted cytotoxic T cells (CD4- CD8+ CD5+).

No reactivity of Mouse anti Pig CD5 antibody, clone 1H6/8 was noted with canine, bovine, equine or human tissue samples ([Doménech et al. 2003](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to  $1 \times 10^6$  cells in 100ul.

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**References**

1. Pescovitz, M.D. *et al.* (1998) Analyses of monoclonal antibodies reacting with porcine CD5: results from the Second International Swine CD Workshop. [Vet Immunol Immunopathol. 60 \(3-4\): 269-73.](#)
  2. Saalmüller, A. *et al.* (1998) Overview of the Second International Workshop to define swine cluster of differentiation (CD) antigens. [Vet Immunol Immunopathol. 60 \(3-4\): 207-28.](#)
  3. Doménech, N. *et al.* (2003) A new epitope on swine CD5 molecule detected by monoclonal antibody 5F12/9. [Hybrid Hybridomics. 22 \(3\): 179-82.](#)
  4. Sánchez-torres, C. *et al.* (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. [Arch Virol. 148 \(12\): 2307-23.](#)
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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**

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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2307F">https://www.bio-rad-antibodies.com/SDS/MCA2307F</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://www.bio-rad-antibodies.com/datasheets)

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