

## Datasheet: MCA1221GA

<b>Description:</b>	MOUSE ANTI PIG wCD6
<b>Specificity:</b>	CD6
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIL8
<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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
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 - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	Porcine Lamina propria leucocytes
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the P3X63 Ag.653 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Pig wCD6, clone MIL8</b> reacts with pig wCD6, the porcine homolog of human CD6.</p> <p>Clone MIL8 was clustered as wCD6 at the Second International Swine CD Antigen Workshop based on its staining pattern of various cell types which was in complete concordance with those exhibited by the reference antibody for the wCD6 cluster at the second workshop, a38b2 (<a href="#">MCA6047</a>). Clone MIL8 and clone a38b2 immunoprecipitated a monomeric protein of ~150 kDa from an activated T-cell lysate. Further, it was established that clones MIL8 and a38b2 bind to different epitopes on porcine wCD6 due to their total lack of reciprocal binding to wCD6 expressing cells (<a href="#">Pescovitz et al. 1998</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Pescovitz, M.D. <i>et al.</i> (1998) Analyses of monoclonal antibodies reacting with porcine wCD6: results from the Second International Swine CD Workshop. <a href="#">Vet Immunol Immunopathol. 60: 285-9.</a></li> <li>2. de Groot, J. <i>et al.</i> (2000) Immunity in barren and enriched housed pigs differing in baseline cortisol concentration. <a href="#">Physiol Behav. 71: 217-23.</a></li> <li>3. Yang, P. <i>et al.</i> (2002) Immune cells in the porcine retina: distribution, characterization and morphological features. <a href="#">Invest Ophthalmol Vis. 43: 1488-92.</a></li> <li>4. Patch, J.R. <i>et al.</i> (2011) Induction of foot-and-mouth disease virus-specific cytotoxic T cell killing by vaccination. <a href="#">Clin Vaccine Immunol. 18 (2): 280-8.</a></li> <li>5. Patch, J.R. <i>et al.</i> (2013) Characterization of cytotoxic T lymphocyte function after foot-and-mouth disease virus infection and vaccination. <a href="#">Viral Immunol. 26 (4): 239-49.</a></li> <li>6. Pedersen, L.E. <i>et al.</i> (2016) Expanding specificity of class I restricted CD8<sup>+</sup> T cells for viral epitopes following multiple inoculations of swine with a human adenovirus vectored foot-and-mouth disease virus (FMDV) vaccine. <a href="#">Vet Immunol Immunopathol. 181: 59-67.</a></li> <li>7. Bosschem, I. <i>et al.</i> (2017) Species-specific immunity to Helicobacter suis. <a href="#">Helicobacter. 22 (3): e12375</a></li> </ol>
<b>Further Reading</b>	1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. <a href="#">Vet Res. 39: 54.</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</b>	Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA1221GA>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

### Recommended Useful Reagents

[MOUSE ANTI PIG CD6 \(MCA6047GA\)](#)

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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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