

Datasheet: MCA1221GA

BATCH NUMBER 159414

Description:	MOUSE ANTI PIG wCD6
Specificity:	CD6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIL8
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
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. Suggested working dilutions are given as a guide only. 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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Porcine Lamina propria leucocytes

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the P3X63 Ag.653 myeloma cell line

Specificity **Mouse anti Pig wCD6, clone MIL8** reacts with pig wCD6, the porcine homolog of human CD6.

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 ([MCA6047](#)). 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 ([Pescovitz *et al.* 1998](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

References

1. de Groot, J. *et al.* (2000) Immunity in barren and enriched housed pigs differing in baseline cortisol concentration. [Physiol Behav. 71: 217-23.](#)
2. Yang, P. *et al.* (2002) Immune cells in the porcine retina: distribution, characterization and morphological features. [Invest Ophthalmol Vis. 43: 1488-92.](#)
3. Pescovitz, M.D. *et al.* (1998) Analyses of monoclonal antibodies reacting with porcine wCD6: results from the Second International Swine CD Workshop. [Vet Immunol Immunopathol. 60: 285-9.](#)
4. Pedersen, L.E. *et al.* (2016) Expanding specificity of class I restricted CD8⁺ T cells for viral epitopes following multiple inoculations of swine with a human adenovirus vectored foot-and-mouth disease virus (FMDV) vaccine. [Vet Immunol Immunopathol. 181: 59-67.](#)
5. Patch, J.R. *et al.* (2011) Induction of foot-and-mouth disease virus-specific cytotoxic T cell killing by vaccination. [Clin Vaccine Immunol. 18 \(2\): 280-8.](#)
6. Patch, J.R. *et al.* (2013) Characterization of cytotoxic T lymphocyte function after foot-and-mouth disease virus infection and vaccination. [Viral Immunol. 26 \(4\): 239-49.](#)
7. Bosschem, I. *et al.* (2017) Species-specific immunity to *Helicobacter suis*. [Helicobacter. 22 \(3\)Jan 26 \[Epub ahead of print\].](#)

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

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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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