

Datasheet: MCA1221

Description:	MOUSE ANTI PIG wCD6
Specificity:	CD6
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MIL8
Isotype:	IgG2a
Quantity:	2 ml

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	■			Neat - 1/10
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	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
Preservative Stabilisers	0.1% Sodium Azide
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, ab36b2. Clone MIL8 and clone ab36b2 immunoprecipitated a monomeric protein of ~150 kDa from an activated

T-cell lysate. Further, it was established that clones MIL8 and ab36b2 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 50ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. de Groot, J. <i>et al.</i> (2000) Immunity in barren and enriched housed pigs differing in baseline cortisol concentration. Physiol Behav. 71: 217-23. 2. Yang, P. <i>et al.</i> (2002) Immune cells in the porcine retina: distribution, characterization and morphological features. Invest Ophthalmol Vis. 43: 1488-92. 3. Pescovitz, M.D. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2017) Species-specific immunity to <i>Helicobacter suis</i>. 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	Store at +4°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10336 available at: 10336: https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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