Datasheet: MCA1219

BATCH NUMBER 152844

Description:	MOUSE ANTI PIG SWC8
Specificity:	SWC8
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MIL3
Isotype:	IgM
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	▪			1/20
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	0.09% Sodium Azide
Immunogen	Porcine Lamina Propria Leucocytes.
RRID	AB_322076

Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3-X63-Ag.653 myeloma cell line.
Specificity	**Mouse anti Pig SWC8, clone MIL3**, recognizes the porcine SWC8 cell surface antigen, an antigen that as yet has no identified human homolog. SWC8 is expressed by granulocytes, B cells, a subset of T cells and by some non-haematopoietic cells. Monocytes however do not express SWC8. Clone MIL3 has been used in two colour flow cytometry with Mouse anti Porcine CD14 antibody, clone MIL2 (MCA1218GA) to distinguish between monocytes and granulocytes (Haverson *et al.* 1994).
Flow Cytometry	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Haverson, K. *et al.* (1994) Characterization of monoclonal antibodies specific for monocytes, macrophages and granulocytes from porcine peripheral blood and mucosal tissues. J Immunol Methods. 170 (2): 233-45. 2. Lunney, J.K. (1993) Characterization of swine leukocyte differentiation antigens. Immunol Today. 14 (4): 147-8. 3. Summerfield, A. *et al.* (2001) Induction of apoptosis in bone marrow neutrophil-lineage cells by classical swine fever virus. J Gen Virol. 82 (Pt 6): 1309-18. 4. Zelnickova, P. *et al.* (2008) Age-dependent changes of proinflammatory cytokine production by porcine peripheral blood phagocytes. Vet Immunol Immunopathol. 124: 367-78. 5. Summerfield, A. *et al.* (2003) Porcine peripheral blood dendritic cells and natural interferon-producing cells. Immunology. 110: 440-9. 6. Barnard, A.L. *et al.* (2005) Immune response characteristics following emergency vaccination of pigs against foot-and-mouth disease. Vaccine. 23: 1037-47. 7. Chen, L. *et al.* (2003) Macrophages and MHC class II positive dendritiform cells in the iris and choroid of the pig. Curr Eye Res. 26: 291-6. 8. Ondrackova, P. *et al.* (2010) Porcine mononuclear phagocyte subpopulations in the lung, blood and bone marrow: dynamics during inflammation induced by *Actinobacillus pleuropneumoniae*. Vet Res. 41: 64. 9. LeLuduec, J.B. *et al.* (2016) Intradermal vaccination with un-adjuvanted sub-unit vaccines triggers skin innate immunity and confers protective respiratory immunity in domestic swine. Vaccine. 34 (7): 914-22.
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 or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10053 available at: https://www.bio-rad-antibodies.com/SDS/MCA1219 10053
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) Alk. Phos.

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Recommended Negative Controls

MOUSE IgM NEGATIVE CONTROL (MCA692)

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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

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