

Datasheet: MCA1218A647

BATCH NUMBER 161542

Description:	MOUSE ANTI PIG CD14:Alexa Fluor® 647		
Specificity:	CD14		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	MIL2		
Isotype:	lgG2b		
Quantity:	100 TESTS/1ml		

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

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				
Species Cross	Reacts with: Huma	an			
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross				
	reactivity is derive	d from testing within our I	aboratories, peer-re	eviewed publications or	
	personal commun	ications from the originate	ors. Please refer to	references indicated for	
	further information	J	7.0.1 10000 10101 10	rototottooo irratoatoa tot	
		1.			
Product Form	Purified IgG conjugated to Alexa Fluor 647 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm	1)	
	Alexa Fluor®647	650	665		
Preparation	Purified IgG prepa	ared by affinity chromatog	raphy on Protein A		
Buffer Solution	Phosphate buffere	ed saline			

Eucion Bortnero	Onless sells from increasing Dalle / a reise come for and with sell			
	A2SW51 Related reagents			
External Database Links	UniProt:			
Immunogen	Porcine peripheral blood lymphocytes.			
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml.			
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin			

Fusion Partners

Spleen cells from immunized Balb/c mice were fused with cells from the P2-X63-Ag.653 mouse myeloma.

Specificity

Mouse anti Pig CD14, clone MIL2 recognizes porcine CD14. Clone MIL2 was clustered as porcine CD14 at the Third International Workshop on Swine Leukocyte Differentiation Antigens (<u>Haverson et al. 2001</u>). Mouse anti Pig CD14, clone MIL2 immunoprecipitates a protein of ~50 kDa consistent with the expected apparent molecular weight of porcine CD14, and demonstrates the expected CD14 profile by dual labelling and competition assays. Further, pre-incubation of peripheral blood monocytes with MIL2 inhibits the binding of FITC labelled LPS, consistent with masking the CD14 LPS binding site (Thacker et al. 2001).

Mouse anti pig CD14, clone MIL2 demonstrates staining of both monocytes and neutrophils in peripheral blood by flow cytometry with a similar expression pattern to the anti human CD14 clone TüK4, lymphocytes and eosinophils are negative for MIL2 staining (Zelnickova et al. 2007). Cloning and characterization of porcine CD14 indicates a high degree of both functional and structural conservation when compared to CD14 from other mammalian species, the gene maps to chromosome 2 and is expressed on a wide range of tissues in a manner consistent with expression on myeloid cells. (Petersen et al. 2007, Sanz et al. 2007).

Flow Cytometry

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

References

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Further Reading

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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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1218A647 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL: Alexa Fluor® 647 (MCA691A647)

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