

Datasheet: MCA1751A647

**BATCH NUMBER 159449**

<b>Description:</b>	MOUSE ANTI PIG CD45RA:Alexa Fluor® 647
<b>Specificity:</b>	CD45RA
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIL13
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			

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.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	Cells isolated from porcine mesenteric lymph node		

<b>Specificity</b>	<p><b>Mouse anti Pig CD45RA, clone MIL13</b>, recognizes an epitope contained in the portion of porcine CD45 encoded by exon A, CD45RA (<a href="#">Lunney et al. 2007</a>).</p> <p>Mouse anti pig CD45RA, clone MIL13 recognizes both the 210 kDa RA CD45 isoform and the 226 kDa RAC isoform (<a href="#">Zuckermann et al. 2001</a>). Clone MIL13 does not recognize the CD45RC or CD45RO isoforms.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Bozić F <i>et al.</i> (2002) Recruitment of intestinal CD45RA+ and CD45RC+ cells induced by a candidate oral vaccine against porcine post-weaning colibacillosis. <a href="#">Vet Immunol Immunopathol. 86 (3-4): 137-46.</a></li> <li>2. Terzic, S. <i>et al.</i> (2002) Immunophenotyping of leukocyte subsets in peripheral blood and palatine tonsils of prefattening pigs. <a href="#">Vet Res Commun. 26: 273-83.</a></li> <li>3. Pakkanen, T.M. <i>et al.</i> (2000) Periadventitial lacZ gene transfer to pig carotid arteries using a biodegradable collagen collar or a wrap of collagen sheet with adenoviruses and plasmid-liposome complexes. <a href="#">J Gene Med. 2: 52-60.</a></li> <li>4. Schierack, P. <i>et al.</i> (2009) Effects of <i>Bacillus cereus</i> var. <i>toyoi</i> on immune parameters of pregnant sows. <a href="#">Vet Immunol Immunopathol. 127: 26-37.</a></li> <li>5. Suzuki, S. <i>et al.</i> (2016) Generation and characterization of RAG2 knockout pigs as animal model for severe combined immunodeficiency. <a href="#">Vet Immunol Immunopathol. 178: 37-49.</a></li> <li>6. López, E. <i>et al.</i> (2019) Identification of very early inflammatory markers in a porcine myocardial infarction model. <a href="#">BMC Vet Res. 15 (1): 91.</a></li> <li>7. Li, K. <i>et al.</i> (2019) Generation of porcine monoclonal antibodies based on single cell technologies. <a href="#">Vet Immunol Immunopathol. 215: 109913.</a></li> <li>8. Forner, R. <i>et al.</i> (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. <a href="#">PLoS One. 16 (5): e0249366.</a></li> <li>9. Ogihara, K. <i>et al.</i> (2022) A porcine lymphoma-derived cell line co-expressing IgM, IgG and IgA. <a href="#">J Vet Med Sci. Apr 11 [Epub ahead of print].</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>Acknowledgements</b>	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a)

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1751A647>  
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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M398798:220624'

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