

## Datasheet: MCA6400A647

<b>Description:</b>	MOUSE ANTI DOG CD94:Alexa Fluor® 647
<b>Specificity:</b>	CD94
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8H10
<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	▪			Neat - 1/10

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Dog		
<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 from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	CD94-mulG2a fusion protein		

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q38HS3</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">611360</a> KLRD1 <a href="#">Related reagents</a>
<b>Synonyms</b>	CD94
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Dog CD94 antibody, clone 8H10</b> recognizes canine CD94, also known as KLRD1 (Killer cell lectin like receptor D1).</p> <p>CD94 is expressed on natural killer (NK) cells and on natural killer-like T (NKT) cells. In humans, a range of receptors that can identify and modulate NK cell function have been well described. Among them CD94 which associates with members from the NKG2 family to form activating or inhibitory heterodimers. It is not established whether the same interaction happens in dogs. Canine NK cells remain poorly characterized with mouse anti dog CD94 being one of few markers available to detect them (<a href="#">Graves et al. 2019</a>).</p> <p>Mouse anti dog CD94 antibody, clone 8H10 will detect approx. 7.7% (NK cell range in dogs: 2.5% – 15%) (<a href="#">Graves et al. 2019</a>, <a href="#">Kisseberth and Lee, 2021</a>) of freshly isolated canine PBMC and has been used for magnetic bead cell isolation (<a href="#">Graves et al. 2019</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<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) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a>

**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6400A647>  
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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 \(MCA928A647\)](#)

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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://bio-rad-antibodies.com/datasheets)  
'M419177:230605'

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