

## Datasheet: MCA1039A647

<b>Description:</b>	RAT ANTI DOG CD8:Alexa Fluor® 647
<b>Specificity:</b>	CD8
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YCATE55.9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## Product Details

**RRID** AB\_2075548

**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 - 1/5

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 systems with appropriate negative/positive controls.

**Target Species** Dog

**Product Form** Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide  
**Stabilisers** 1% Bovine Serum Albumin

**Approx. Protein Concentrations** IgG concentration 0.05 mg/ml

**Immunogen** Canine CD8 alpha chimaeric human IgG1 Fc fusion protein.

**External Database Links**

**UniProt:**  
[P33706](#) [Related reagents](#)

**Entrez Gene:**

[403157](#) CD8A [Related reagents](#)

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**Fusion Partners** Spleen cells from immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.

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**Specificity** **Rat anti Dog CD8 antibody, clone YCATE55.9** was clustered as Canine CD8 in the First Canine Leukocyte Antigen Workshop ([Cobbold et al. 1994](#)). YCATE55.9 reacts with a rat cell line transfected with cDNA for canine CD8 $\alpha$  ([Gorman et al. 1994](#)) and blocks MHC class I dependant T-cell responses *in vitro* and *in vivo*.

Rat anti Dog CD8, clone YCATE55.9 has been shown to deplete circulating CD8+ T cells when administered to dogs *in vivo*. ([Watson et al. 1993](#)) Reduced levels of circulating CD8+ T cells has been associated with decreased survival times for dogs with osteosarcoma ([Biller et al. 2010](#))

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
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**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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

18 months from date of despatch.

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**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA6004A647\)](#)

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