

Datasheet: MCA1039PB

Description:	RAT ANTI DOG CD8:Pacific Blue®
Specificity:	CD8
Format:	Pacific Blue®
Product Type:	Monoclonal Antibody
Clone:	YCATE55.9
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

RRID AB_1102342

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

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 Pacific Blue® - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Pacific Blue®	410	455

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](#)

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

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 α ([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](#))

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

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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.

Guarantee

18 months from date of despatch.

Acknowledgements

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

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Pacific Blue® \(MCA6004PB\)](#)

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