

Datasheet: MCA1039PB

BATCH NUMBER 162831

| 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

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 | | | |
| lax Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm | |
| | Pacific Blue® | 410 | 455 | |
| reparation | Purified IgG prepare supernatant | d by affinity chromatog | raphy on Protein G | |
| fer Solution | Phosphate buffered | saline | | |
| servative | 0.09% Sodium Azide | e | | |
| abilisers | 1% Bovine Serun | n Albumin | | |
| pprox. Protein oncentrations | IgG concentration 0. | 05 mg/ml | | |

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Canine CD8 alpha chimaeric human IgG1 Fc fusion protein.

External Database Links

UniProt:

P33706 Related reagents

Entrez Gene:

403157 CD8A Related reagents

RRID

AB 1102342

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 CD8α (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.

References

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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. This product is photosensitive and should be protected from light.

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/MCA1039PB

10041

Regulatory For research purposes only

Related Products

North & South Tel: +1 800 265 7376

Recommended Negative Controls

RAT IgG1 NEGATIVE CONTROL: Pacific Blue® (MCA6004PB)

America Fax: +1 919 878 3751

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe Tel:

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Worldwide

Email: antibody_sales_de@bio-rad.com

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