# Datasheet: MCA1039PE

## Product Details

**Description:** RAT ANTI DOG CD8:RPE

**Specificity:** CD8

**Format:** RPE

**Product Type:** Monoclonal Antibody

**Clone:** YCATE55.9

**Isotype:** IgG1

**Quantity:** 100 TESTS

### 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).

<table>
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<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry</td>
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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.

### Target Species

Dog

### Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

### Reconstitution

Reconstitute with 1ml distilled water

### Preparation

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

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

- 0.09% Sodium Azide
- 1% Bovine Serum Albumin
- 5% Sucrose

### Immunogen

Canine CD8 alpha chimaeric human IgG1 Fc fusion protein.

### External Database Links

- **UniProt:** P33706  [Related reagents](http://www.bio-rad-antibodies.com/related_reagents)
- **Entrez Gene:** 403157  CD8A  [Related reagents](http://www.bio-rad-antibodies.com/related_reagents)

### Fusion Partners

Spleen cells from immunised DA rat were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.
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 dependent 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 1 x 10^6 cells in 100ul.

References


Storage
Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
12 months from date of reconstitution.

Health And Safety Information
Material Safety Datasheet documentation available at:

Regulatory
For research purposes only

Related Products
Recommended Negative Controls
RAT IgG1 NEGATIVE CONTROL:RPE (MCA6004PE)