# Datasheet: MCA1999S

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| **Description:** | MOUSE ANTI DOG CD8 ALPHA |
| **Specificity:** | CD8 ALPHA |
| **Format:** | S/N |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | CA9.JD3 |
| **Isotype:** | IgG2a |
| **Quantity:** | 2 ml |

## 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 |
| Immunohistology - Frozen | ▪ | | | Neat - 1/10 |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | ▪ | | | |
| Functional Assays (1) | | | ▪ | |

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.

(1) **Removal of sodium azide is recommended prior to use in functional assays.**

**Target Species**

Dog

**Product Form**

Tissue culture supernatant - liquid

**Preservative Stabilisers**

<0.1% sodium azide ($NaN_3$)

**Immunogen**

Canine thymocytes.

**External Database Links**

**UniProt:**

P33706 Related reagents

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| | **Entrez Gene:**<br>403157 CD8A Related reagents |
| **RRID** | AB_323370 |
| **Fusion Partners** | Spleen cells from immunized Balb/c mice were fused with cells of the P3X63-Ag.653 myeloma cell line. |
| **Specificity** | **Mouse anti Dog CD8 alpha antibody, clone CA9.JD3** recognizes the canine CD8 alpha chain which is expressed by thymocytes, peripheral T cells in the blood and lymphoid organs .<br><br>Mouse anti Dog CD8α clone CA9.JD3 has been reported to inhibit cytotoxic T lymphocyte function (Cobbold *et al.* 1994). CA9.JD3 immunoprecipitates a heterodimer of ~32 kDa and ~36 kDa (reduced) from canine Tumor cells and from thymocytes. |
| **Flow Cytometry** | Use 10µl of the suggested working dilution to label $10^6$ cells in 100µl |
| **Histology Positive Control Tissue** | Canine spleen, lymph node |
| **References** | 1. Cobbold, S. & Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). Tissue Antigens. 43 (3): 137-54.<br>2. Yuasa, K. *et al.* (2007) Injection of a recombinant AAV serotype 2 into canine skeletal muscles evokes strong immune responses against transgene products. Gene Ther. 14: 1249-60.<br>3. Veenhof, E.Z. *et al.* (2011) Characterisation of T cell phenotypes, cytokines and transcription factors in the skin of dogs with cutaneous adverse food reactions. Vet J. 187 (3): 320-4.<br>4. Lin Shiow-Chen *et al.* (2014) Immune Characterization of Peripheral Blood Mononuclear cells of the Dogs Restored from Innoculation of Canine Transmissible Venereal Tumor Cells. Tai Vet J. 40 (04): 181-90.<br>5. Constantinoiu, C.C. *et al.* (2015) Mucosal tolerance of the hookworm *Ancylostoma caninum* in the gut of naturally infected wild dogs. Parasite Immunol. 37 (10): 510-20.<br>6. Huyghe, S. *et al.* (2016) The Microscopic Structure of the Omentum in Healthy Dogs: The Mystery Unravelled. Anat Histol Embryol. 45 (3): 209-18.<br>7. Knebel, A. *et al.* (2021) Measurement of canine Th17 cells by flow cytometry. Vet Immunol Immunopathol. 243: 110366.<br>8. Bertolo, P.H.L. *et al.* (2022) Influence of serum progesterone levels on the inflammatory response of female dogs with visceral leishmaniosis. Vet Parasitol. 302: 109658.<br>9. Wesolowski, M. *et al.* (2023) Long-term changes of Th17 and regulatory T cells in peripheral blood of dogs with spinal cord injury after intervertebral disc herniation. BMC Vet Res. 19 (1): 90. |
| **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 |

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| | short term use (up to 4 weeks) and store the remaining aliquots at -20°C.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10336 available at: https://www.bio-rad-antibodies.com/SDS/MCA1999S<br>10336 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC, HRP |

### Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)


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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

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