

Datasheet: MCA1999S

BATCH NUMBER 170507

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](#)

Entrez Gene:

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

RRID	AB_323370
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Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the P3X63-Ag.653 myeloma cell line.
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Specificity	<p>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 .</p> <p>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.</p>
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Flow Cytometry	Use 10 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l
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Histology Positive Control Tissue	Canine spleen, lymph node
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References	<ol style="list-style-type: none">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): 137-54.2. Yuasa, K. <i>et al.</i> (2007) Injection of a recombinant AAV serotype 2 into canine skeletal muscles evokes strong immune responses against transgene products. Gene Ther. 14: 1249-60.3. Veenhof, E.Z. <i>et al.</i> (2011) Characterisation of T cell phenotypes, cytokines and transcription factors in the skin of dogs with cutaneous adverse food reactions. Vet J. 187 (3): 320-4.4. Lin Shiow-Chen <i>et al.</i> (2014) Immune Characterization of Peripheral Blood Mononuclear cells of the Dogs Restored from Inoculation of Canine Transmissible Venereal Tumor Cells. Tai Vet J. 40 (04): 181-90.5. Constantinoiu, C.C. <i>et al.</i> (2015) Mucosal tolerance of the hookworm <i>Ancylostoma caninum</i> in the gut of naturally infected wild dogs. Parasite Immunol. 37 (10): 510-20.6. Huyghe, S. <i>et al.</i> (2016) The Microscopic Structure of the Omentum in Healthy Dogs: The Mystery Unravalled. Anat Histol Embryol. 45 (3): 209-18.7. Knebel, A. <i>et al.</i> (2021) Measurement of canine Th17 cells by flow cytometry. Vet Immunol Immunopathol. 243: 110366.8. Bertolo, P.H.L. <i>et al.</i> (2022) Influence of serum progesterone levels on the inflammatory response of female dogs with visceral leishmaniosis. Vet Parasitol. 302: 109658.9. Wesolowski, M. <i>et al.</i> (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): 90.10. Mushati, K.A. <i>et al.</i> (2026) Modulation of uterine responses in dogs: The divergent effects of semen and embryonal signals on steroidogenic receptors and selected immune system-related factors. Theriogenology. 250: 117644.
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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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10336 available at: https://www.bio-rad-antibodies.com/SDS/MCA1999S
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M418611:230427'

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