

## Datasheet: MCA2036S

**BATCH NUMBER 155188**

<b>Description:</b>	MOUSE ANTI DOG CD45RA
<b>Specificity:</b>	CD45RA
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CA4.1D3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	

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.

<b>Target Species</b>	Dog
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>RRID</b>	AB_323368
<b>Specificity</b>	<b>Mouse anti Dog CD45RA antibody, clone CA4.1D3</b> recognizes the canine homologue of CD45RA, clustered at the first International canine leukocyte Antigen Workshop ( <a href="#">Cobbold et al. 1994</a> ). Clone CA4.1D3 identifies a cell surface glycoprotein expressed by B lymphocytes, a subset of T-lymphocytes, monocytes and thymocytes ( <a href="#">Moore et al. 1990</a> )

**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Caniatti, M. *et al.* (1996) Canine lymphoma: immunocytochemical analysis of fine-needle aspiration biopsy. [Vet Pathol. 33 \(2\): 204-12.](#)
  2. 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.](#)
  3. Bauer, T.R. Jr *et al.* (2006) Correction of the disease phenotype in canine leukocyte adhesion deficiency using *ex vivo* hematopoietic stem cell gene therapy. [Blood. 108 \(10\): 3313-20.](#)
  4. Ting-De Ravin SS *et al.* (2006) Correction of canine X-linked severe combined immunodeficiency by *in vivo* retroviral gene therapy. [Blood. 107 \(8\): 3091-7.](#)
  5. Bauer, T.R. Jr *et al.* (2013) Long-term follow-up of foamy viral vector-mediated gene therapy for canine leukocyte adhesion deficiency. [Mol Ther. 21 \(5\): 964-72.](#)
  6. Rütgen BC *et al.* (2012) Authentication of primordial characteristics of the CLBL-1 cell line prove the integrity of a canine B-cell lymphoma in a murine *in vivo* model. [PLoS One. 7 \(6\): e40078.](#)
  7. Alderberth, I *et al.* (2015) Prevention of Inflammatory Disorders in Domestic Non-Human Mammals [US Patent Publication number US20150079131 A1](#)
  8. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and IFN $\gamma$  production define vaccine-specific canine T-cell subsets. [Vet Immunol Immunopathol. 164 \(3-4\): 127-36.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**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/MCA2036S>  
10336

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

Rabbit Anti Mouse IgG (STAR13...) [FITC](#), [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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