

Datasheet: MCA2035S

BATCH NUMBER 162451

Description:	MOUSE ANTI DOG CD45
Specificity:	CD45
Other names:	LCA
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	CA12.10C12
Isotype:	IgG1
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	▪			
Immunohistology - Paraffin (1)	▪			
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.

(1) This product requires heat mediated antigen retrieval (citrate buffer, pH 6.0).

Target Species	Dog
Product Form	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.1% Sodium Azide
RRID	AB_323369

Specificity **Mouse anti Dog CD45 antibody, clone CD12.10C12**recognises the canine homologue of

CD45, clustered at the first International Canine Leukocyte Workshop ([Cobbold et al. 1994](#)). Mouse anti Dog CD45 antibody, clone CD12.10C12 recognizes a glycoprotein of approximately 200 kDa expressed by cells of haemopoietic origin.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

- 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. Ramos-Vara, J.A. & Miller, M.A. (2007) Immunohistochemical detection of protein gene product 9.5 (PGP 9.5) in canine epitheliotropic T-cell lymphoma (*mycosis fungoides*). [Vet Pathol. 44 \(1\): 74-9.](#)
 4. Caswell JL, *et al.* (2005) Graft-versus-host disease in severe combined immunodeficiency/beige mice administered canine leukocytes. [Can J Vet Res. 69\(4\): 246-52.](#)
 5. Lane, L.V. *et al.* (2012) Canine intravascular lymphoma with overt leukemia. [Vet Clin Pathol. Mar;41\(1\):84-91.](#)
 6. Trindade, A.B. *et al.* (2017) Mesenchymal-like stem cells in canine ovary show high differentiation potential. [Cell Prolif. 50\(6\):e12391.](#)
 7. Tsumagari, S. *et al.* (2007) Characterization of CD34+ cells from canine umbilical cord blood, bone marrow leukocytes, and peripheral blood by flow cytometric analysis. [J Vet Med Sci. 69 \(11\): 1207-9.](#)
 8. Lombardi, P. *et al.* (2019) Clinical and Immunological Response in Dogs Naturally Infected by *L. infantum* Treated with a Nutritional Supplement. [Animals \(Basel\). 9 \(8\) Jul 30 \[Epub ahead of print\].](#)

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

Health And Safety Information Material Safety Datasheet documentation #10336 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2035S>
10336

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...)	RPE
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
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	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	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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