

Datasheet: MCA1037APC

BATCH NUMBER 148981

| Description: | RAT ANTI DOG CD5:APC | | |
|---------------|----------------------|--|--|
| Specificity: | CD5 | | |
| Format: | APC | | |
| Product Type: | Monoclonal Antibody | | |
| Clone: | YKIX322.3 | | |
| Isotype: | IgG2a | | |
| Quantity: | 100 TESTS | | |

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 |

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 conju | gated to Allophycocyanin | (APC) - lyophilised |
| Reconstitution | Reconstitute with | 1ml distilled water | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm |
| | APC | 650 | 661 |
| reparation | Purified IgG prepa | ared by affinity chromatogr | raphy on Protein G |
| ffer Solution | Phosphate buffere | ed saline | |
| eservative | 0.09% Sodium Az | ride (NaN ₃) | |
| tabilisers | 1% Bovine Serum | Albumin | |
| | 170 Dovine Seruit | 17 (IDGITIII) | |

| Immunogen | Concanavilin A activated canine peripheral blood cells |
|-----------------|--|
| RRID | AB_1833728 |
| Fusion Partners | Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line |
| Specificity | Rat anti Dog CD5 antibody, clone YKIX322.3 recognizes canine CD5, a 67 kDa cell surface type 1 transmembrane glycoprotein also known as lymphocyte antigen T1, Ly-1 or Leu-1. CD5 is expressed on the surface of T-cells and thymocytes, CD5 is also expressed by NK cells at low levels (<u>Huang et al. 2008</u>). Rat anti dog CD5, cloneYKIX322.3 was clustered as canine CD5 in the First Canine Leucocyte Antigen Workshop (<u>Cobbold et al. 1994</u>). |
| | In a study of 73 cases of canine chronic lymphocytic leukemia (CLL) CD5 expression was absent on all cases of B-cell CLL as defined by CD21 expression and lack of CD3 or other T cell antigen expression (<u>Vernau and Moore 1999</u>). Rat anti dog CD5 serves as a useful marker for the discrimination of canine leukemias of differing origins (<u>Deravi et al. 2017</u>). |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | 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). <u>Tissue Antigens. 43 (3): 137-54.</u> Hewicker-Trautwein, M. <i>et al.</i> (1999) Immunocytochemical demonstration of lymphocyte subsets and MHC class II antigen expression in synovial membranes from dogs with rheumatoid arthritis and degenerative joint disease. <u>Vet Immunol Immunopathol. 67 (4): 341-57.</u> Huang, Y.C. (2008) CD5-low expression lymphocytes in canine peripheral blood show characteristics of natural killer cells. <u>J Leukoc Biol. 84: 1501-10.</u> Araújo, M.S. <i>et al.</i> (2011) Immunological changes in canine peripheral blood leukocytes triggered by immunization with first or second generation vaccines against canine visceral leishmaniasis. <u>Vet Immunol Immunopathol. 141: 64-75.</u> Burnett, R.C. <i>et al.</i> (2003) Diagnosis of canine lymphoid neoplasia using clonal rearrangements of antigen receptor genes. <u>Vet Pathol. 40: 32-41.</u> |

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Storage

Prior to reconstitution store at +4°C.

After 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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #20487 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1037APC

20487

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:APC (MCA6005APC)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

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Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Email: 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 'M375245:210104'

Printed on 05 Mar 2024

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