

## Datasheet: MCA1439A700

**BATCH NUMBER 164071**

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD19:Alexa Fluor® 700 |
| <b>Specificity:</b>  | CD19                                 |
| <b>Format:</b>       | ALEXA FLUOR® 700                     |
| <b>Product Type:</b> | Monoclonal Antibody                  |
| <b>Clone:</b>        | 6D5                                  |
| <b>Isotype:</b>      | IgG2a                                |
| <b>Quantity:</b>     | 100 TESTS/1ml                        |

### 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               |

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.

|                                       |                                                                                               |                            |                          |
|---------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>Target Species</b>                 | Mouse                                                                                         |                            |                          |
| <b>Product Form</b>                   | Purified IgG conjugated to Alexa Fluor® 700 - liquid                                          |                            |                          |
| <b>Max Ex/Em</b>                      | <b>Fluorophore</b>                                                                            | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | Alexa Fluor®700                                                                               | 702                        | 723                      |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                     |                            |                          |
| <b>Preservative</b>                   | 0.09% sodium azide (NaN <sub>3</sub> )                                                        |                            |                          |
| <b>Stabilisers</b>                    | 1% bovine serum albumin                                                                       |                            |                          |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.05 mg/ml                                                                  |                            |                          |

**Immunogen** Human K562 cell line transfected with murine CD19.

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**External Database**

**Links**

**UniProt:**

[P25918](#)    [Related reagents](#)

**Entrez Gene:**

[12478](#) Cd19    [Related reagents](#)

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**RRID**

AB\_844483

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**Fusion Partners**

Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 myeloma cell line.

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**Specificity**

**Rat anti Mouse CD19 antibody, clone 6D5** recognizes the murine CD19 cell surface antigen, a ~95 kDa glycoprotein expressed by B lymphocytes. Rat anti Mouse CD19 antibody, clone 6D5 recognizes the same, or a closely related epitope as clone Rat anti Mouse CD19 antibody, clone ID3 in cross-competition assays.

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**Flow Cytometry**

Use 10 $\mu$ l of the suggested working dilution to label 10<sup>6</sup> cells in 100 $\mu$ l. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

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**References**

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12. Weiss-Gayet, M. *et al.* (2016) Notch Stimulates Both Self-Renewal and Lineage Plasticity in a Subset of Murine CD9High Committed Megakaryocytic Progenitors. [PLoS One. 11 \(4\): e0153860.](#)
13. Meng, Q.H. & White, H.N. (2017) CD21<sup>int</sup> CD23<sup>+</sup> follicular B cells express antigen-specific secretory IgM mRNA as primary and memory responses. [Immunology. 151 \(2\): 211-8.](#)
14. Mccubbrey, A.L. *et al.* (2016) MicroRNA-34a Negatively Regulates Efferocytosis by Tissue Macrophages in Part via SIRT1. [J Immunol. 196 \(3\): 1366-75.](#)
15. Vila-Caballer, M. *et al.* (2019) Disruption of the CCL1-CCR8 axis inhibits vascular Treg recruitment and function and promotes atherosclerosis in mice. [J Mol Cell Cardiol. 132: 154-63.](#)
16. Domingues, C.S. *et al.* (2020) Host Genetics Background Influence in the Intragastric *Trypanosoma cruzi* Infection. [Front Immunol. 11: 566476.](#)

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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. This product is photosensitive and should be protected from light.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1439A700>  
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**Regulatory** For research purposes only

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## Related Products

## Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 700 \(MCA1212A700\)](#)

## Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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