

Datasheet: MCA6394A647

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| Description: | MOUSE ANTI HORSE CD23:Alexa Fluor® 647 |
| Specificity: | CD23 |
| Format: | ALEXA FLUOR® 647 |
| Product Type: | Monoclonal Antibody |
| Clone: | 51-3 |
| Isotype: | IgG1 |
| Quantity: | 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.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪ | | | 1/5 - 1/50 |

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.

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|---------------------------------------|---|----------------------------|--------------------------|
| Target Species | Horse | | |
| Product Form | Purified IgG conjugated to Alexa Fluor®647 - liquid | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | Alexa Fluor®647 | 650 | 665 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide (NaN ₃) | | |
| Stabilisers | 1% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.05 mg/ml | | |
| Immunogen | Recombinant equine CD23/IL-4 fusion protein | | |

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|--------------------------------|---|
| External Database Links | UniProt: A0A3Q2H947 Related reagents |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the X3.Ag8-653 myeloma cell line |
| Specificity | <p>Mouse anti Horse CD23 antibody, clone 51-3 recognizes horse CD23 also known as Fc epsilon Receptor II (FcERII).</p> <p>CD23, a C-type lectin, is the low affinity receptor for IgE, but also binds CD21, MHC class II and the integrin alpha-chains CD11b and CD11c. The extracellular domain can be released by proteolytic cleavage and bind ligands such as CD21. In humans and mice, CD23 is found on B-cell subsets and monocytes with low levels of expression on T-cells, follicular dendritic cells, eosinophils, NK-cells, Langerhans cells and platelets (Conrad, 1990). Key functions for CD23 include negative regulation for IgE and IgG antibody responses in B cells by influencing cellular activation and differentiation (Liu et al. 2016) and modulating allergic disease through IgE-facilitated allergen presentation, controlling allergen-specific T-cell activation (Selb et al. 2017).</p> <p>Mouse anti Horse CD23 antibody, clone 51-3, identified small lymphocytes expressing high levels of MHC class II which were also positive for surface IgE. CD23 was barely detectable on blood T-cells or monocytes. A population with a median CD23 expression of 2.5% (range 0.9–4.5%) was found in equine PBMC (Wagner et al. 2012).</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul |
| Storage | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | 12 months from date of despatch |
| Acknowledgements | <p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com</p> |
| Health And Safety | Material Safety Datasheet documentation #10041 available at: |

Information

<https://www.bio-rad-antibodies.com/SDS/MCA6394A647>
10041

Regulatory

For research purposes only

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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](https://www.bio-rad-antibodies.com/datasheets)

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