

Datasheet: MCA6394A647

BATCH NUMBER 165387

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.

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
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
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6394A647>
10041

Regulatory

For research purposes only

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