

Datasheet: MCA6394F

Description:	MOUSE ANTI HORSE CD23:FITC
Specificity:	CD23
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	51-3
Isotype:	IgG1
Quantity:	0.1 mg

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 - 1/25

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 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 1x10 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
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6394F10041
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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