

## Datasheet: MCA6394F

**BATCH NUMBER 164933**

<b>Description:</b>	MOUSE ANTI HORSE CD23:FITC
<b>Specificity:</b>	CD23
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	51-3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Horse		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A 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 0.1 mg/ml		

<b>Immunogen</b>	Recombinant equine CD23/IL-4 fusion protein
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">A0A3Q2H947</a> <a href="#">Related reagents</a>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X3.Ag8-653 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Horse CD23 antibody, clone 51-3</b> 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 (<a href="#">Conrad, 1990</a>). Key functions for CD23 include negative regulation for IgE and IgG antibody responses in B cells by influencing cellular activation and differentiation (<a href="#">Liu et al. 2016</a>) and modulating allergic disease through IgE-facilitated allergen presentation, controlling allergen-specific T-cell activation (<a href="#">Selb et al. 2017</a>).</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 (<a href="#">Wagner et al. 2012</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6394F">https://www.bio-rad-antibodies.com/SDS/MCA6394F</a> 10041
<b>Regulatory</b>	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)

