

Datasheet: MCA6394GA

Description:	MOUSE ANTI HORSE CD23
Specificity:	CD23
Format:	Purified
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	■			1/1000 - 1/2000

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 - liquid
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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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

Mouse anti Horse CD23 antibody, clone 51-3 recognizes horse CD23 also known as Fc epsilon Receptor II (FcERII).

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](#)).

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](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6394GA>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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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
'M415990:230124'

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