

Datasheet: MCA6083

Description:	MOUSE ANTI BOVINE CD8a
Specificity:	CD8a
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	7C2B
Isotype:	IgG2a
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	▪			Neat - 1/10
Functional Assays		▪		

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	Bovine
Species Cross Reactivity	<p>Reacts with: Goat, Sheep, Bison, Water Buffalo</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Concentrated tissue culture supernatant - liquid
Preparation	Concentrated tissue culture supernatant clarified by filtration through a 0.2 micrometer filter
Buffer Solution	Serum free tissue culture medium containing proprietary protein free supplement
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P31783 Related reagents Entrez Gene: 281060 CD8A Related reagents
Specificity	<p>Mouse anti Bovine CD8a, clone 7C2B, recognizes bovine CD8a. CD8a is a coreceptor for MHC I molecules. It is involved in the activation of the cytotoxic T-cell response and the clearance of virally infected cells. CD8 is predominantly present either as homodimer or a multimer of the alpha chain or as heterodimer of the alpha and beta chains (Littman et al. 1987). Bovine CD8 differs from the CD8 molecules of other animal species and shares 57.85% identity with swine, 37.70% with mouse, 27.50 % with chicken, and 20.69% identity with carp (Zhenbao et al. 2014).</p> <p>Mouse anti Bovine CD8a, clone 7C2B recognizes bovine CD8 lymphocytes and gamma delta CD8+ lymphocytes (Park et al. 2000). In addition it reacts with the CD8 lymphocytes of water buffalo (Davis et al. 2001).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Koo H.C. <i>et al.</i> (2004) Analysis of the immune response to Mycobacterium avium subsp. paratuberculosis in experimentally infected calves. Infect Immun. 72 (12): 6870-83. 2. Allen A.J. <i>et al.</i> (2009) Development of a bovine ileal cannulation model to study the immune response and mechanisms of pathogenesis of paratuberculosis. Clin Vaccine Immunol. 16 (4): 453-63.
Storage	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C. DO NOT FREEZE.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #20389 available at: https://www.bio-rad-antibodies.com/SDS/MCA6083</p> <p>20389</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG2a (STAR133...) [RPE](#)

Recommended Useful Reagents

[MOUSE ANTI BOVINE CD4 \(MCA6081\)](#)

[MOUSE ANTI BOVINE CD3 \(MCA6080\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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

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