

## Datasheet: MCA6083

<b>Description:</b>	MOUSE ANTI BOVINE CD8a
<b>Specificity:</b>	CD8a
<b>Format:</b>	Con S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7C2B
<b>Isotype:</b>	IgG2a
<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	▪			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

Reacts with: Goat, Sheep, Bison, Water Buffalo

**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.

### 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<sub>3</sub>)

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**External Database Links**

**UniProt:**  
[P31783](#)    [Related reagents](#)

**Entrez Gene:**  
[281060](#)    CD8A    [Related reagents](#)

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**Specificity**

**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](#)).

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](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul

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**References**

1. Koo H.C. *et al.* (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. *et al.* (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.](#)
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**Storage**

Store at +4°C. DO NOT FREEZE.  
Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20389 available at:  
20389: <https://www.bio-rad-antibodies.com/uploads/MSDS/20389.pdf>

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**Regulatory**

For research purposes only

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## 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** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To  
find a

batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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