

Datasheet: MCA6083

BATCH NUMBER 142897

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

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

0.09% Sodium Azide (NaN₃)

Stabilisers

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](#)

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](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

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.](#)

Storage

Store at +4°C. DO NOT FREEZE.

Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #20389 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6083>
20389

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 \(MCA6080\)](#)

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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
'M334805:181203'

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