

## Datasheet: MCA6082

<b>Description:</b>	MOUSE ANTI BOVINE CD5
<b>Specificity:</b>	CD5
<b>Format:</b>	Con S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B29A
<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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Concentrated tissue culture supernatant - liquid
<b>Preparation</b>	Concentrated tissue culture supernatant clarified by filtration through a 0.2 micrometer filter
<b>Buffer Solution</b>	Serum free tissue culture medium containing proprietary protein free supplement
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Bovine lymphocytes

**External Database  
Links**

**UniProt:**

[P19238](#)

[Related reagents](#)

**Entrez Gene:**

[280745](#)

CD5

[Related reagents](#)

**Specificity**

**Mouse anti Bovine CD5, clone B29A**, recognizes bovine CD5. The 67 kDa glycoprotein CD5 is present on alpha beta and gamma delta T cells but only on a small number of B cells. In contrast, in cattle infected with bovine leukemia virus almost all B cells were CD5+ ([Depelchin et al. 1989](#)). CD5 associates with CD2 and the CD3 zeta chain ([Burgess et al. 1992](#)).

Similarly to mouse or human, in cattle CD5 associates with the B cell receptor. However, in cattle infected with bovine leukemia virus CD5 dissociates from the B cell receptor ([Cantor et al. 2001](#)).

**Flow Cytometry**

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

**References**

1. Davis W.C. *et al.* (1987) The development and analysis of species specific and cross reactive monoclonal antibodies to leukocyte differentiation antigens and antigens of the major histocompatibility complex for use in the study of the immune system in cattle and other species. [Vet Immunol Immunopathol. 15 \(4\): 337-76.](#)

**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:  
20389: <https://www.bio-rad-antibodies.com/uploads/MSDS/20389.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

[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](mailto: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](mailto: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](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://www.bio-rad-antibodies.com/datasheets)

'M388012:210804'

Printed on 06 Jan 2022

