

## Datasheet: MCA6085

**BATCH NUMBER 142899**

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI BOVINE CD14 |
| <b>Specificity:</b>  | CD14                   |
| <b>Format:</b>       | Con S/N                |
| <b>Product Type:</b> | Monoclonal Antibody    |
| <b>Clone:</b>        | CAM36A                 |
| <b>Isotype:</b>      | IgG1                   |
| <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, Cat, Dog, Pig

**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 (NaN<sub>3</sub>)

## Stabilisers

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

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**Immunogen** Activated goat lymphocytes

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## External Database Links

### UniProt:

[Q95122](#)   [Related reagents](#)

### Entrez Gene:

[281048](#) CD14   [Related reagents](#)

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**Specificity** **Mouse anti Bovine CD14, clone CAM36A**, recognizes bovine CD14. CD14 is a co-receptor for bacterial lipopolysaccharide (LPS) and mediates the innate immune response. It is expressed at high levels on the surface of circulating monocytes, macrophages but also on bovine polymorphonuclear neutrophil leukocytes (PMN). Additionally, in cattle the soluble form of CD14 can be found present in the serum and milk ([Sohn \*et al.\* 2004](#)). CD14 signals through TLR4, MyD88, TIRAP and TRAF6 activating NFkB and eliciting the inflammatory response.

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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. Ahn J.S. *et al.* (2002) Scavenger receptor cysteine-rich domains 9 and 11 of WC1 are receptors for the WC1 counter receptor. [J Leukoc Biol. 72 \(2\): 382-90.](#)
2. Zhang, Y. *et al.* (2001) Induction of interleukin-6 and interleukin-12 in bovine B lymphocytes, monocytes, and macrophages by a CpG oligodeoxynucleotide (ODN 2059) containing the GTCGTT motif. [J Interferon Cytokine Res. 21 \(10\): 871-81.](#)

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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: <https://www.bio-rad-antibodies.com/SDS/MCA6085>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG1 (STAR132...) [RPE](#)

### Recommended Useful Reagents

[MOUSE ANTI BOVINE CD11c \(MCA6084\)](#)

**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

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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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