Datasheet: MCA6085

BATCH NUMBER 171771

Description:	MOUSE ANTI BOVINE CD14
Specificity:	CD14
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	CAM36A
Isotype:	IgG1
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, 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_3)

Stabilisers	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Activated goat lymphocytes
External Database Links	**UniProt:** Q95122 Related reagents **Entrez Gene:** 281048 CD14 Related reagents
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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul
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. 3. Baillou, A. *et al.* (2024) Characterization of intestinal mononuclear phagocyte subsets in young ruminants at homeostasis and during *Cryptosporidium parvum* infection. Front Immunol. 15: 1379798. 4. Jaudas, F. *et al.* (2025) Perinatal dysfunction of innate immunity in cystic fibrosis. Sci Transl Med. 17 (782): eadk9145.
Storage	This product is shipped at ambient temperature. Store at +4^{o}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/MCA6085
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG1 (STAR132...) RPE

Recommended Useful Reagents

MOUSE ANTI BOVINE CD11c (MCA6084)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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