

Datasheet: MCA6084

Description:	MOUSE ANTI BOVINE CD11c
Specificity:	CD11c
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	BAQ153A
Isotype:	IgM
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		▪		
Immunocytochemistry	▪			

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	<p>Reacts with: Goat, Sheep, Bison, Water Buffalo</p> <p>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.</p>
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 ₃)

Approx. Protein Concentrations	Ig concentration 1.0 mg/ml
Immunogen	Cells from multiple species
Specificity	<p>Mouse anti Bovine CD11c, clone BAQ153A, recognizes bovine CD11c also known as integrin alpha X. CD11c is a receptor for fibrinogen recognizing the G-P-R motif in fibrinogen. It is involved in the cell to cell interaction during inflammatory responses. In addition, it has an important function in adhesion and chemotaxis in monocytes, macrophages and dendritic cells (DCs).</p> <p>In cattle, CD11c+ DCs are a source of the anti-inflammatory cytokine IL-10 during infection by the highly pathogenic foot-and-mouth disease virus (FMDV). IL-10 may be responsible for the reduction in the antigen processing ability of DCs during FMDV infection (Sei et al. 2016). Clone BAQ153A reacts with bovine CD11c+ macrophages, DCs and some lymphocytes as shown by IHC (Palmer et al. 2011) and flow cytometry (Sei et al. 2016).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Srsen S. et al. (1989) Jacob's syndrome (2 case reports). Cesk Pediatr. 44 (7): 420-2. 2. Naessens, J. & Hopkins, J. (1996) Introduction and summary of workshop findings Veterinary Immunology and Immunopathology. 52 (4): 213-35. 3. Jeyaseelan S. et al. (2001) <i>Mannheimia haemolytica</i> leukotoxin activates a nonreceptor tyrosine kinase signaling cascade in bovine leukocytes, which induces biological effects. Infect Immun. 69 (10): 6131-9. 4. Elnaggar, M.M. et al. (2016) Characterization and use of new monoclonal antibodies to CD11c, CD14, and CD163 to analyze the phenotypic complexity of ruminant monocyte subsets. Vet Immunol Immunopathol. 178: 57-63. 5. Liu, J. et al. (2020) <i>Theileria annulata</i>. transformation altered cell surface molecules expression and endocytic function of monocyte-derived dendritic cells. Ticks Tick Borne Dis. 11 (3): 101365. 6. Cunha, P. et al. (2022) Simplified Approaches for the Production of Monocyte-Derived Dendritic Cells and Study of Antigen Presentation in Bovine. Front Vet Sci. 9: 891893. 7. Baillou, A. et al. (2024) Characterization of intestinal mononuclear phagocyte subsets in young ruminants at homeostasis and during <i>Cryptosporidium parvum</i> infection Frontiers in Immunology. 15: 1379798 [Epub ahead of print].
Storage	<p>This product is shipped at ambient temperature.</p> <p>Store at +4°C. DO NOT FREEZE.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #20389 available at: https://www.bio-rad-antibodies.com/SDS/MCA6084</p> <p>20389</p>

Related Products

Recommended Useful Reagents

[MOUSE ANTI BOVINE CD14 \(MCA6085\)](#)

North & South

Tel: +1 800 265 7376

America

Fax: +1 919 878 3751

Email: 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**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: 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

'M441101:250523'

Printed on 23 May 2025