

Datasheet: MCA6086

BATCH NUMBER 165989

Description:	MOUSE ANTI BOVINE CD18
Specificity:	CD18
Other names:	ITGB2
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	BAQ30A
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, Alpaca, Llama, Human 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 Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Cells from multiple species
External Database Links	<p>UniProt: P32592 Related reagents</p> <p>Entrez Gene: 281877 ITGB2 Related reagents</p>
Synonyms	CD18
Specificity	<p>Mouse anti Bovine CD18, clone BAQ30A, recognizes bovine CD18 also known as ITGB2 or integrin beta-2. CD18 is a receptor for ICAM1, ICAM2, ICAM3, and ICAM4. It recognizes the G-P-R motif in the fibrinogen alpha chain and is involved in leukocyte adhesion as well as transmigration of T cells and neutrophils.</p> <p>Different from other organisms, the signal peptide of ruminant CD18, the beta subunit, is not cleaved and remains intact on the mature CD18 molecule, leukotoxin from <i>Pasteurella haemolytica</i> binds to the intact signal peptide on ruminant leukocytes causing acute inflammation and lung damage (Shanthalingam et al. 2016). Holstein cattle harbor a mutation in CD18 causing bovine leukocyte adhesion deficiency (BLAD) syndrome (Kehrli et al. 1992) with decreased expression of beta 2 integrins and lowered susceptibility to cytolysis in Pasteurella infections (Jeyaseelan et al. 2000).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<p>1. Howard C.J. & Naessens J (1993) Summary of workshop findings for cattle (tables 1 and 2). Vet Immunol Immunopathol. 39 (1-3): 25-47.</p> <p>2. Saalmüller A. et al. (2005) Summary of the animal homologue section of HLDA8. Cell Immunol. 236 (1-2): 51-8.</p>
Storage	<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/MCA6086</p> <p>20389</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Positive Controls

[GOAT ANTI MOUSE IgG1:RPE \(STAR132PE\)](#)

Recommended Useful Reagents

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

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

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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

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