

Datasheet: MCA6086

Description:	MOUSE ANTI BOVINE CD18		
Specificity:	CD18		
Other names:	ITGB2		
Format:	Con S/N		
Product Type:	Monoclonal Antibody		
Clone:	BAQ30A		
Isotype:	lgG1		
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	0.09% Sodium Azide (NaN ₃)

Stabilisers Approx. Protein IgG concentration 1.0 mg/ml Concentrations **Immunogen** Cells from multiple species **External Database UniProt:** Links P32592 Related reagents **Entrez Gene:** 281877 ITGB2 Related reagents **Synonyms CD18 Specificity** 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. 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 Pasteurella haemolytica 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). **Flow Cytometry** Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul References 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. 2. Saalmüller A. et al. (2005) Summary of the animal homologue section of HLDA8. Cell Immunol. 236 (1-2): 51-8. 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** Material Safety Datasheet documentation #20389 available at: Information 20389: https://www.bio-rad-antibodies.com/uploads/MSDS/20389.pdf

Related Products

Regulatory

Recommended Secondary Antibodies

For research purposes only

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgG (STAR77...) HRP

Rabbit Anti Mouse IgG (STAR12...) RPE

Rabbit Anti Mouse IgG (STAR8...) DyLight®800

Rabbit Anti Mouse IgG (STAR13...)

Goat Anti Mouse IgG (STAR76...)

RPE

Goat Anti Mouse IgG (STAR70...)

FITC

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680,

DyLight®800, FITC, HRP

Recommended Positive Controls

GOAT ANTI MOUSE IgG1:RPE (STAR132PE)

Recommended Useful Reagents

MOUSE ANTI BOVINE CD11c (MCA6084)
MOUSE ANTI BOVINE CD14 (MCA6085)

 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
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M334808:181203'

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