



Datasheet: MCA6086

**BATCH NUMBER 142900**

<b>Description:</b>	MOUSE ANTI BOVINE CD18
<b>Specificity:</b>	CD18
<b>Other names:</b>	ITGB2
<b>Format:</b>	Con S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BAQ30A
<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, 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

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Cells from multiple species
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P32592</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281877</a>    ITGB2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD18
<b>Specificity</b>	<p><b>Mouse anti Bovine CD18, clone BAQ30A</b>, 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 (<a href="#">Shanthalingam et al. 2016</a>). Holstein cattle harbor a mutation in CD18 causing bovine leukocyte adhesion deficiency (BLAD) syndrome (<a href="#">Kehrli et al. 1992</a>) with decreased expression of beta 2 integrins and lowered susceptibility to cytolysis in Pasteurella infections (<a href="#">Jeyaseelan et al. 2000</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>Howard C.J. &amp; Naessens J (1993) Summary of workshop findings for cattle (tables 1 and 2). <a href="#">Vet Immunol Immunopathol. 39 (1-3): 25-47.</a></li> <li>Saalmüller A. et al. (2005) Summary of the animal homologue section of HLDA8. <a href="#">Cell Immunol. 236 (1-2): 51-8.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #20389 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA6086">https://www.bio-rad-antibodies.com/SDS/MCA6086</a>  20389</p>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

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

## 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](https://bio-rad-antibodies.com/datasheets)

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