

Datasheet: MCA2433F

**BATCH NUMBER 150615**

<b>Description:</b>	MOUSE ANTI BOVINE CD44:FITC
<b>Specificity:</b>	CD44
<b>Other names:</b>	H-CAM
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	IL-A118
<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

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Bovine

### Species Cross Reactivity

Reacts with: Camel

**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

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q29423</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281057</a>    CD44    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_1604795
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.853 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Bovine CD44 antibody, clone IL-A118</b> recognizes bovine Phagocytic Glycoprotein-1 (PGP-1), also known as CD44, Hermes antigen, Extracellular matrix receptor III or HUTCH-1. Bovine CD44 is a 346 amino acid ~90 kDa type I single pass transmembrane glycoprotein containing a single <a href="#">Link domain</a> , responsible for hyaluronan binding. Bovine CD44 is expressed by a wide range of bovine cells, including peripheral T and B lymphocytes, monocytes, granulocytes, platelets and early erythroid cells.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Naessens, J. &amp; Nthale, J. (1993) Biochemical characterization of three non-lineage antigens defined by workshop antibodies. <a href="#">Vet Immunol Immunopathol. 39 (1-3): 217-23.</a></li> <li>2. Menge C <i>et al.</i> (2004) Bovine ileal intraepithelial lymphocytes represent target cells for Shiga toxin 1 from <i>Escherichia coli</i>. <a href="#">Infect Immun. 72 (4): 1896-905.</a></li> <li>3. Naessens, J. <i>et al.</i> (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. <a href="#">Vet Immunol Immunopathol. 39 (1-3): 283-90.</a></li> <li>4. 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>5. de Moraes, C.N. <i>et al.</i> (2016) Bovine endometrial cells: a source of mesenchymal stem/progenitor cells. <a href="#">Cell Biol Int. 40 (12): 1332-9.</a></li> <li>6. de Moraes, C.N. <i>et al.</i> (2017) Shotgun proteomic analysis of the secretome of bovine endometrial mesenchymal progenitor/stem cells challenged or not with bacterial lipopolysaccharide. <a href="#">Vet Immunol Immunopathol. Mar 27 [Epub ahead of print]</a></li> <li>7. Lee, J. <i>et al.</i> (2020) Bovine tongue epithelium-derived cells: A new source of bovine mesenchymal stem cells. <a href="#">Biosci Rep. 40 (4): BSR20181829.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be</p>

protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2433F>  
10041

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://www.bio-rad-antibodies.com/datasheets)  
'M366899:200529'

**Printed on 25 Mar 2023**

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