

Datasheet: MCA2433F

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

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.		
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		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
External Database Links	UniProt:		
	Q29423	Related reagents	

Entrez Gene:

[281057](#) CD44 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.853 myeloma cell line.

Specificity **Mouse anti Bovine CD44 antibody, clone IL-A118** 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 [Link domain](#), 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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

References

1. Naessens, J. & Nthale, J. (1993) Biochemical characterization of three non-lineage antigens defined by workshop antibodies. [Vet Immunol Immunopathol. 39 \(1-3\): 217-23.](#)
2. Menge C *et al.* (2004) Bovine ileal intraepithelial lymphocytes represent target cells for Shiga toxin 1 from *Escherichia coli*. [Infect Immun. 72 \(4\): 1896-905.](#)
3. Naessens, J. *et al.* (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. [Vet Immunol Immunopathol. 39 \(1-3\): 283-90.](#)
4. Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). [Vet Immunol Immunopathol. 39 \(1-3\): 25-47.](#)
5. de Moraes, C.N. *et al.* (2016) Bovine endometrial cells: a source of mesenchymal stem/progenitor cells. [Cell Biol Int. 40 \(12\): 1332-9.](#)
6. de Moraes, C.N. *et al.* (2017) Shotgun proteomic analysis of the secretome of bovine endometrial mesenchymal progenitor/stem cells challenged or not with bacterial lipopolysaccharide. [Vet Immunol Immunopathol. Mar 27 \[Epub ahead of print\]](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be 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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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Printed on 02 May 2018

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