Datasheet: MCA2433F

BATCH NUMBER 174133

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. 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 A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 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
RRID	AB_1604795
Fusion Partners	Spleen cells from immunized 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 bocine 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 1x10^6 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. 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. 3. Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). Vet Immunol Immunopathol. 39 (1-3): 25-47. 4. 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. 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. 187: 42-7. 7. Lee, J. *et al.* (2020) Bovine tongue epithelium-derived cells: A new source of bovine mesenchymal stem cells. Biosci Rep. 40 (4): BSR20181829. 8. Molinos, M. *et al.* (2023) Alterations of bovine nucleus pulposus cells with aging. Aging Cell. 22 (8): e13873. 9. Ferreira, J.R. *et al.* (2024) Dynamics of CD44(+) bovine nucleus pulposus cells with inflammation. Sci Rep. 14 (1): 9156.

10. Barcelos, S.M. *et al.* (2024) Extracellular vesicles derived from bovine adipose-derived mesenchymal stromal cells enhance *in vitro* embryo production from lesioned ovaries. Cytotherapy. 26 (10): 1141-51.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2433F
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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