

Datasheet: MCA2437A647

BATCH NUMBER 152548

Description:	MOUSE ANTI BOVINE CD86:Alexa Fluor® 647		
Specificity:	CD86		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	IL-A190		
Isotype:	IgG1		
Quantity:	100 TESTS/1ml		

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

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	Reacts with: Sheep)		
Reactivity	reactivity is derived	tivity and working condit I from testing within our I cations from the originato	aboratories, peer-re	viewed publications o
Product Form	Purified IgG conjugated to Alexa Fluor 647 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665	
Preparation	Purified IgG prepar supernatant	ed by affinity chromatog	raphy on Protein A	from tissue culture
Buffer Solution	Phosphate buffered	d 1:		

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml			
External Database Links	UniProt: Q1JPC5 Related reagents			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line.			
Specificity	Mouse anti Bovine CD86 antibody, cllone IL-A190 recognizes the bovine CD86 cell surface antigen, expressed by dendritic cells, activated macrophages and activated B cells. CD86 plays an important role in co-stimulation of T cells in the primary immune response.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul			
References	 Norimatsu, M. <i>et al.</i> (2003) Differential response of bovine monocyte-derived macrophages and dendritic cells to infection with Salmonella typhimurium in a low-dose model in vitro. <u>Immunology. 108: 55-61.</u> Glew, E.J. <i>et al.</i> (2003) Differential effects of bovine viral diarrhoea virus on monocytes and dendritic cells. <u>J Gen Virol. 84 (Pt 7): 1771-80.</u> Rhodes, S.G. <i>et al.</i> (2003) 1,25-dihydroxyvitamin D3 and development of tuberculosis in cattle. <u>Clin Diagn Lab Immunol. 10 (6): 1129-35.</u> Epardaud, M. <i>et al.</i> (2004) Enrichment for a CD26hi SIRP- subset in lymph dendritic cells from the upper aero-digestive tract. <u>J Leukoc Biol. 76 (3): 553-61.</u> Langelaar, M.F. <i>et al.</i> (2005) <i>Mycobacterium avium ssp. paratuberculosis</i> recombinant 			

Immunol. 61: 242-50
6. Bonneau, M. *et al.* (2006) Migratory monocytes and granulocytes are major lymphatic carriers of Salmonella from tissue to draining lymph node. <u>J Leukoc Biol. 79: 268-76.</u>

heat shock protein 70 interaction with different bovine antigen-presenting cells. Scand J

- 7. Pascale, F. *et al.* (2008) Plasmacytoid dendritic cells migrate in afferent skin lymph. <u>J</u> Immunol. 180: 5963-72.
- 8. Hemati, B. *et al.* (2009) Bluetongue virus targets conventional dendritic cells in skin lymph. J Virol. 83: 8789-99.
- 9. Ruscanu, S. *et al.* (2012) The double-stranded RNA bluetongue virus induces type I interferon in plasmacytoid dendritic cells via a MYD88-dependent TLR7/8-independent signaling pathway. J Virol. 2012 May;86: 5817-28.
- 10. Mauro, A. *et al.* (2016) M1 and M2 macrophage recruitment during tendon regeneration induced by amniotic epithelial cell allotransplantation in ovine. Res Vet Sci. 105: 92-102.
- 11. Corripio-miyar, Y. *et al.* (2017) 1,25-Dihydroxyvitamin D3 modulates the phenotype and function of Monocyte derived dendritic cells in cattle. <u>BMC Vet Res. 13 (1): 390.</u>
- 12. Liu, J. et al. (2020) *Theileria annulata*. transformation altered cell surface molecules expression and endocytic function of monocyte-derived dendritic cells. <u>Ticks Tick Borne</u>

Dis. 11 (3): 101365.

- 13. Marzo, S. *et al.* (2021) Characterisation of dendritic cell frequency and phenotype in bovine afferent lymph reveals kinetic changes in costimulatory molecule expression <u>Vet Immunol Immunopathol</u>. 19 Nov: 110363.
- 14. Stabel, J.R. *et al.* (2022) B cell phenotypes and maturation states in cows naturally infected with *Mycobacterium avium* subsp. *Paratuberculosis*. <u>PLoS One. 17 (12):</u> e0278313.
- 15. Russo, V. *et al.* (2022) Tendon Healing Response Is Dependent on Epithelial-Mesenchymal-Tendon Transition State of Amniotic Epithelial Stem Cells. <u>Biomedicines. 10</u> (5): 1177.
- 16. Wherry, T.L.T. *et al.* (2022) Effects of 1,25-Dihydroxyvitamin D₃ and 25-Hydroxyvitamin D₃ on PBMCs From Dairy Cattle Naturally Infected With *Mycobacterium avium* subsp. *paratuberculosis*. Front Vet Sci. 9: 830144.
- 17. Zenobi, M.G. *et al.* (2020) Effect of prepartum energy intake and supplementation with ruminally protected choline on innate and adaptive immunity of multiparous Holstein cows. J Dairy Sci. 103 (3): 2200-16.

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.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2437A647 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA928A647)

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 Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_de@bio-rad.com

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M387825:210726'

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