

Datasheet: MCA2431PE

## **BATCH NUMBER INN1111**

Description:	MOUSE ANTI BOVINE CD40:RPE		
Specificity:	CD40		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	IL-A156		
Isotype:	lgG1		
Quantity:	100 TESTS		

# **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat

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	Reacts with: Sheep				
Reactivity	<b>N.B.</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 conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized		
Reconstitution	Reconstitute with 1.	0 ml distilled water			
	Care should be taken during reconstitution as the protein may appear as a film at the				
	bottom of the vial. E	Bio-Rad recommend that	the vial is gently mixed after re-	constitution.	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		

Bovine Serum Albumin Sucrose  Prot: 28203 Related reagents  rez Gene: 86849 CD40 Related reagents  RSF5  een cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 Iloma cell line  Ise anti Bovine CD40 antibody, clone IL-A156 recognizes the bovine Tumor	
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Mouse anti Bovine CD40 antibody, clone IL-A156 recognizes the bovine Tumor necrosis factor receptor superfamily member 5, also known as CD40 or B-cell surface antigen CD40. CD40 is a 260 amino acid single pass type 1 transmembrane glycoprotein with a predicted molecular mass of 31 kDa. Bovine CD40 also has an N terminal signal peptide of 20 amino acids. Bovine CD40 is expressed by B lymphocytes and a subset of T lymphocytes.	
0 plays an important role in the differentiation of B lymphocytes into effector cells, and so involved in interactions between T and B lymphocytes.	
10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul	
angelaar, M.F. <i>et al.</i> (2005) <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> recombinant is shock protein 70 interaction with different bovine antigen-presenting cells. Scand Junol. 61 (3): 242-50.  pardaud, M. <i>et al.</i> (2004) Enrichment for a CD26 <sup>hi</sup> SIRP- subset in lymph dendritics from the upper aero-digestive tract. J Leukoc Biol. 76 (3): 553-61.  Ilew, E.J. <i>et al.</i> (2003) Differential effects of bovine viral diarrhoea virus on monocytes dendritic cells. J Gen Virol. 84 (Pt 7): 1771-80.  orimatsu, M. <i>et al.</i> (2003) Differential response of bovine monocyte-derived prophages and dendritic cells to infection with <i>Salmonella typhimurium</i> in a low-dose let <i>in vitro</i> . Immunology 108: 55-61.  aas, K.M. <i>et al.</i> (2001) Enhancing effects of anti-CD40 treatment on the immune conse of SCID-bovine mice to <i>Trypanosoma congolense</i> infection. J Leukoc Biol. 70:	
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mycoides possesses anti-inflammatory properties. Vet Res. 46 (1): 122.

6. Totté, P. et al. (2015) Free exopolysaccharide from Mycoplasma mycoides subsp.

- 7. Corripio-Miyar, Y. *et al.* (2015) Phenotypic and functional analysis of monocyte populations in cattle peripheral blood identifies a subset with high endocytic and allogeneic T-cell stimulatory capacity. <u>Vet Res. 46: 112.</u>
- 8. 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.
- 9. Kornuta, C.A. *et al.* (2021) MANα1-2MAN decorated liposomes enhance the immunogenicity induced by a DNA vaccine against BoHV-1. <u>Transbound Emerg Dis. 68</u> (2): 587-97.
- 10. 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.

#### **Storage**

Prior to reconstitution store at +4°C.

Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2431PE">https://www.bio-rad-antibodies.com/SDS/MCA2431PE</a> 20487
Regulatory	For research purposes only

# Related Products

## **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_us@bio-rad.com

Email: antibody\_sales\_uk@bio-rad.com

Email: 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 'M375491:210104'

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