

## Datasheet: MCA2437F

### BATCH NUMBER 1015

<b>Description:</b>	MOUSE ANTI BOVINE CD86:FITC
<b>Specificity:</b>	CD86
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	IL-A190
<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
Immunofluorescence			▪	

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: Sheep

**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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q1JPC5</a> <a href="#">Related reagents</a>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Bovine CD86 antibody, clone IL-A190</b> recognises the bovine CD86 cell surface antigen, which is 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Langelaar, M.F. <i>et al.</i> (2005) <i>Mycobacterium avium ssp. paratuberculosis</i> recombinant heat shock protein 70 interaction with different bovine antigen-presenting cells. <a href="#">Scand J Immunol. 61: 242-50</a></li> <li>2. Rhodes, S.G. <i>et al.</i> (2003) 1,25-dihydroxyvitamin D3 and development of tuberculosis in cattle. <a href="#">Clin Diagn Lab Immunol. 10 (6): 1129-35.</a></li> <li>3. Glew, E.J. <i>et al.</i> (2003) Differential effects of bovine viral diarrhoea virus on monocytes and dendritic cells. <a href="#">J Gen Virol. 84 (Pt 7): 1771-80.</a></li> <li>4. Epardaud, M. <i>et al.</i> (2004) Enrichment for a CD26hi SIRP- subset in lymph dendritic cells from the upper aero-digestive tract. <a href="#">J Leukoc Biol. 76 (3): 553-61.</a></li> <li>5. Bonneau, M. <i>et al.</i> (2006) Migratory monocytes and granulocytes are major lymphatic carriers of Salmonella from tissue to draining lymph node. <a href="#">J Leukoc Biol. 79: 268-76.</a></li> <li>6. 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. <a href="#">Immunology. 108: 55-61.</a></li> <li>7. Hemati, B. <i>et al.</i> (2009) Bluetongue virus targets conventional dendritic cells in skin lymph. <a href="#">J Virol. 83: 8789-99.</a></li> <li>8. Pascale, F. <i>et al.</i> (2008) Plasmacytoid dendritic cells migrate in afferent skin lymph. <a href="#">J Immunol. 180: 5963-72.</a></li> <li>9. Ruscanu, S. <i>et al.</i> (2012) The double-stranded RNA bluetongue virus induces type I interferon in plasmacytoid dendritic cells via a MYD88-dependent TLR7/8-independent signaling pathway. <a href="#">J Virol. 2012 May;86: 5817-28.</a></li> <li>10. Mauro, A. <i>et al.</i> (2016) M1 and M2 macrophage recruitment during tendon regeneration induced by amniotic epithelial cell allotransplantation in ovine. <a href="#">Res Vet Sci. 105: 92-102.</a></li> <li>11. Corripio-miyar, Y. <i>et al.</i> (2017) 1,25-Dihydroxyvitamin D3 modulates the phenotype and function of Monocyte derived dendritic cells in cattle. <a href="#">BMC Vet Res. 13 (1): 390.</a></li> </ol>

**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.

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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/MCA2437F>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M366905:200529'

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