

Datasheet: MCA5655F

Description:	MOUSE ANTI BOVINE MHC CLASS II DQ:FITC
Specificity:	MHC CLASS II DQ
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CC158
Isotype:	lgG2a
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	•			

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.

ovine			
ırified IgG conjuga	ted to Fluorescein Isoth	niocyanate Isomer 1	
uorophore	Excitation Max (nm)	Emission Max (nm	
ТС	490	525	
urified IgG prepared opernatant	d by affinity chromatog	raphy on Protein G	
Phosphate buffered saline			
09% Sodium Azide	e (NaN₃)		
6 Bovine Serum Al	bumin		
G concentration 0.	1mg/ml		
ווע	rified IgG conjuga norophore C rified IgG prepare pernatant osphate buffered s 09% Sodium Azide 6 Bovine Serum Al	rified IgG conjugated to Fluorescein Isotle Forophore Excitation Max (nm) C 490 rified IgG prepared by affinity chromatogorernatant	

External Database Links	UniProt: Q30308 Related reagents				
RRID	AB_10896318				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.				
Specificity	Mouse anti Bovine MHC class II DQ antibody, clone CC158 recognises Bovine MHC Class II DQ. MHC Class II molecules are constitutively expressed on antigen presenting cells such as dendritic cells, B lymphocytes, monocytes, macrophages, activated T lymphocytes and may be induced on a range of other cell types by interferon gamma. The major histocompatibility complex (MHC) is a cluster of genes some of which are important in the immune response to infections. In cattle, this complex is referred to as the bovine leukocyte antigen (BoLA) region. There are 2 major types of MHC class IIa molecules encoded by the BoLA which are DR and DQ each composed of an alpha and beta chain.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul				
References	 Stephens, S.A. & Howard, C.J. (2002) Infection and transformation of dendritic cells from bovine afferent lymph by <i>Theileria annulata</i>. Parasitology. 124 (Pt 5): 485-93. Yamakawa, Y. et al. (2008) Identification and functional characterization of a bovine orthologue to DC-SIGN. J Leukoc Biol. 83 (6): 1396-403. Price,S.J. and Hope, J.C. (2009) Enhanced secretion of interferon-gamma by bovine gammadelta T cells induced by coculture with Mycobacterium bovis-infected dendritic cells: evidence for reciprocal activating signals. Immunology. 126: 201-8. Van Rhijn, I. et al. (2007) Massive, sustained gammadelta T cell migration from the bovine skin in vivo. J Leukoc Biol. 81: 968-73. 				
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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.				
Guarantee	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 IgG2a NEGATIVE CONTROL:FITC (MCA929F)

 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

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