

# Datasheet: MCA2226 BATCH NUMBER 167457

Description:	MOUSE ANTI SHEEP MHC CLASS II DR MONOMORPHIC
Specificity:	MHC CLASS II DR MONOMORPHIC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	37.68
Isotype:	IgG2a
Quantity:	0.25 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 <u>www.bio-</u>						
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	•			1/50 - 1/200		
	Immunohistology - Frozen	•					
	Immunohistology - Paraffin						
	ELISA						
	Immunoprecipitation	•					
	Western Blotting						
	Where this product has n	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 recomn system using appropriate			•	or use in their own		
Target Species	Sheep						
Species Cross Reactivity	Reacts with: Goat, Huma <b>N.B.</b> Antibody reactivity a reactivity is derived from personal communications further information.	and workir testing wi	ng conditio thin our la	aboratories, peer-revie	wed publications or		
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by supernatant	affinity ch	nromatogr	aphy on Protein A fror	n tissue culture		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN <sub>3</sub> )
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Splenocytes from ATL mice.
RRID	AB_324580
Specificity	<b>Mouse anti Sheep MHC class II antibody, clone 37.68</b> recognizes a monomorphic epitope on ovine MHC class II DR molecules, 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 sheep, this complex is referred to as the ovine leukocyte antigen (OLA) region. There are 2 major types of MHC class IIa molecules encoded by the OLA which are DR and DQ each composed of an alpha and beta chain.
Flow Cytometry	Use 10µl of the suggested working dilution to label 1 x $10^6$ cells in 100µl
References	<ol> <li>Puri, N.K. <i>et al.</i> (1987) Monoclonal antibodies to sheep MHC class I and class II molecules: biochemical characterization of three class I gene products and four distinct subpopulations of class II molecules. <u>Vet Immunol Immunopathol. 15 (1-2): 59-86.</u></li> <li>Puri, N.K. &amp; Brandon, M.R. (1987) Sheep MHC class II molecules. II. Identification and characterization of four distinct subsets of sheep MHC class II molecules. <u>Immunology. 62</u> (4): 575-80.</li> <li>Puri, N.K. <i>et al.</i> (1987) Monoclonal antibodies to sheep MHC class II molecules recognize all HLA-D or subsets of HLA-D region products. <u>Hum Immunol. 20 (3): 195-207.</u></li> <li>Ballingall, K.T. <i>et al.</i> (1995) Analysis of the fine specificities of sheep major histocompatibility complex class II-specific monoclonal antibodies using mouse L-cell transfectants. <u>Anim Genet. 26 (2): 79-84.</u></li> <li>Wang, Y. <i>et al.</i> (2017) Characterization of a secreted cystatin of the parasitic nematode <i>Haemonchus contortus</i> and its immune-modulatory effect on goat monocytes. <u>Parasit Vectors. 10 (1): 425.</u></li> <li>Wang, Y. <i>et al.</i> (2020) Characterization of a rhodanese homologue from <i>Haemonchus contortus</i> and its immune-modulatory effect of Allogeneic Cell-Based Tissue-Engineered Treatments in a Sheep Osteonecrosis Model. <u>Tissue Eng Part A. 26 (17-18): 993-1004.</u></li> </ol>

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. frost-free freezers is not recommended.				
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2226">https://www.bio-rad-antibodies.com/SDS/MCA2226</a> 10040				
Regulatory	For research purposes only				

## **Related Products**

### **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12)	<u>RPE</u>		
Goat Anti Mouse IgG (H/L) (STAR117) FITC			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Rabbit Anti Mouse IgG (STAR13)	<u>HRP</u>		
Recommended Negative Controls			

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	id.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 'M413382:221122'

#### Printed on 15 Mar 2024

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