

Datasheet: MCA2226F BATCH NUMBER 167458

Description:	MOUSE ANTI SHEEP MHC CLASS II DR MONOMORPHIC:FITC
Specificity:	MHC CLASS II DR MONOMORPHIC
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	37.68
Isotype:	IgG2a
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				1/5 - 1/10

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	Sheep			
Species Cross Reactivity	N.B. Antibody reareactivity is derive personal commun	Reacts with: Goat, Human, Bovine 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 conju	ugated to Fluorescein Isotl	niocyanate Isomer 1 (FITC) -	liquid
Max Ex/Em	Fluorophore FITC	Excitation Max (nm) 490	Emission Max (nm) 525	
Preparation	Purified IgG preparent	ared by affinity chromatog	raphy on Protein A from tissu	e culture
Buffer Solution	Phosphate buffer	ed saline		

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Splenocytes from ATL mice.
RRID	AB_323966
Specificity	Mouse anti Sheep MHC class II antibody, clone 37.68 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	1. 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. Vet Immunol Immunopathol. 15 (1-2): 59-86. 2. Puri, N.K. & Brandon, M.R. (1987) Sheep MHC class II molecules. II. Identification and characterization of four distinct subsets of sheep MHC class II molecules. Immunology. 62 (4): 575-80. 3. 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. Hum Immunol. 20 (3): 195-207. 4. 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. Anim Genet. 26 (2): 79-84. 5. 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. Parasit Vectors. 10 (1): 425. 6. Wang, Y. <i>et al.</i> (2020) Characterization of a rhodanese homologue from <i>Haemonchus contortus</i> and its immune-modulatory effects on goat immune cells <i>in vitro</i> . Parasit Vectors. 13 (1): 454. 7. López-Fernández, A. <i>et al.</i> (2020) Effect of Allogeneic Cell-Based Tissue-Engineered Treatments in a Sheep Osteonecrosis Model. Tissue Eng Part A. 26 (17-18): 993-1004. 8. Ehsan, M. <i>et al.</i> (2021) Fasciola gigantica. tegumental calcium-binding EF-hand protein 4 exerts immunomodulatory effects on goat monocytes. Parasit Vectors. 14 (1): 276.

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. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2226F 10041
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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M413383:221122'

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