

Datasheet: MCA897GA

Description:	MOUSE ANTI SHEEP MHC CLASS I
Specificity:	MHC CLASS I
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VPM19
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been re derived from testing withi communications from the information. For general proto	peer-reviewed publica e refer to references in	tions or personal dicated for further			
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			1/25 - 1/200	
	Immunohistology - Frozen	-				
	Immunohistology - Paraffin			•		
	ELISA					
	Immunoprecipitation	-				
	Western Blotting (1)	-				
	necessarily exclude its use in such procedures. Suggested working dilutions are giv a guide only. It is recommended that the user titrates the product for use in their ow system using appropriate negative/positive controls. (1) Non-reducing conditions required					
Target Species	Sheep					
	-					
Species Cross Reactivity	Reacts with: Cat N.B. Antibody reactivity a reactivity is derived from personal communications further information.	testing wi	ithin our la	boratories, peer-revie	wed publications or	
•	N.B. Antibody reactivity a reactivity is derived from personal communications	testing wi	ithin our la	boratories, peer-revie	wed publications or	

Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)						
Carrier Free	Yes						
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml						
Immunogen	Sheep T cells.						
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS0 myeloma cell line.						
SpecificityMouse anti Sheep MHC Class I antibody, clone VPM19 recognizes the ovine homologue of the human MHC Class I, a monomorphic determinant expressed on the heavy chain of sheep MHC Class I, (OLA Class I).							
	The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In sheep, this is often referred to as the ovine leukocyte antigen (OLA) region. Ovine MHC Class I functions in the recognition and presentation of foreign antigens to T-cells.						
	Ovine MHC Class I is a membrane glycoprotein with a molecular weight of approximately 44kDa, expressed on the cell surface of all peripheral blood leucocytes.						
	Clone VPM19 has been in used in a number of domestic animal disease states, in particular Maedi Visna virus infection, a disease of significant importance in commercial sheep flocks (Lee <i>et al.</i> 1996, Ryan <i>et. al.</i> 2000 and Wu <i>et. al.</i> 2008). Mouse anti Sheep MHC Class I antibody, clone VPM19 recognizes MHC class I in other species and has been used in a study of feline herpes virus infection (Montagnaro <i>et. al.</i> 2009).						
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.						
References	 Hopkins, J. & Dutia, B.M. (1990) Monoclonal antibodies to the sheep analogues of human CD45 (leucocyte common antigen), MHC class I and CD5. Differential expression after lymphocyte activation <i>in vivo</i>. Vet Immunol Immunopathol. 24 (4): 331-46. Lee, W.C. <i>et al.</i> (1996) The phenotype and phagocytic activity of macrophages during maedi-visna virus infection. Vet Immunol Immunopathol. 51 (1-2): 113-26. Ryan, S. <i>et al.</i> (2000) Infection of dendritic cells by the Maedi-Visna lentivirus. J Virol. 74 (21): 10096-103. Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived from peripheral blood monocytes. Immunology. 107: 366-72. Wu, C. <i>et al.</i> (2008) Mapping and characterization of visna/maedi virus cytotoxic T-lymphocyte epitopes. J Gen Virol. 89 (Pt 10): 2586-96. Montagnaro, S. <i>et al.</i> (2009) Feline herpesvirus-1 down-regulates MHC class I expression in an homologous cell system. J Cell Biochem. 106: 179-85. 						

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.					
Guarantee	12 months from date of despatch					
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA897GA 10040					
Regulatory	For research purposes only					

Related Products

Recommended Secondary Antibodies

N	orth & South	Tel: +1 800 265 7376	Worldwid	le	Tel: +44 (0)1865 852 70	00	Europe	Tel: +49 (0) 89 8090 95 21	
	Goat Anti	Mouse IgG (Fc) (STAR1	20)	<u>FITC</u>	, <u>HRP</u>				
	Rabbit Ar	nti Mouse IgG (STAR9)		<u>FITC</u>					
				<u>FITC</u>	, <u>HRP</u>				
				DyLig	ght®650, DyLigh	<u>t®680,</u>	DyLight®800	<u>),</u>	
	Goat Anti	Mouse IgG (H/L) (STAR	.117)	<u>Alk. I</u>	Phos., DyLight®4	<u>488, Dyl</u>	<u>Light®550,</u>		
	Goat Anti	Mouse IgG (STAR70)		<u>FITC</u>					
	Rabbit Ar	ti Mouse IgG (STAR13	.)	<u>HRP</u>					
	Goat Anti	Mouse IgG (STAR76)		<u>RPE</u>					
	Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>								
	Rabbit Ar	ti Mouse IgG (STAR12	.)	<u>RPE</u>					
	Goat Anti	Mouse IgG (STAR77)		<u>HRP</u>					

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381619:210512'

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