

Datasheet: MCA2221PE

BATCH NUMBER 171646

Description:	MOUSE ANTI SHEEP CD45R:RPE
Specificity:	CD45R
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	20.96
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat

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		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin 5% sucrose		

Immunogen	Sheep thymocytes
RRID	AB_609598
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line
Specificity	Mouse anti Sheep CD45R antibody, clone 20.96 recognizes the ovine CD45R cell surface antigen, a ~220 kDa glycoprotein, expressed by all B lymphocytes and a subset of T lymphocytes. In immunohistochemical staining the antibody labels all lymphocytes within the B cell follicles as well as scattered cells in interfollicular areas.
Flow Cytometry	Use 10µl of the suggested working dilution to label 1 x 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Lee, C.S. <i>et al.</i> (1988) Identification of a unique lymphocyte subpopulation in the sheep uterus. Immunology. 63: 157-64. 2. Dutia, B.M. <i>et al.</i> (1993) Analysis of the monoclonal antibodies comprising WC6. Vet Immunol Immunopathol. 39: 193-9. 3. Leemans, I. <i>et al.</i> (2001) Comparative studies on surface phenotypes of Theileria lestoquardi and T. annulata schizont-infected cells. Parasitol Res. 87: 768-77. 4. Sedgmen, B.J. <i>et al.</i> (2002) Cellular and molecular characterisation of the ovine rectal mucosal environment. Vet Immunol Immunopathol. 86: 215-20. 5. Debes, G.F. <i>et al.</i> (2005) Chemokine receptor CCR7 required for T lymphocyte exit from peripheral tissues. Nat Immunol. 6: 889-94. 6. Boppana, D.K. <i>et al.</i> (2005) Cellular infiltration at skin lesions and draining lymph nodes of sheep infested with adult <i>Hyalomma anatolicum anatolicum</i> ticks. Parasitology. 131: 657-67. 7. Tanaka, Y. <i>et al.</i> (2008) Sustained macroscopic engraftment of cynomolgus embryonic stem cells in xenogeneic large animals after in utero transplantation. Stem Cells Dev. 17: 367-81. 8. Olivier, M. <i>et al.</i> (2012) Capacities of Migrating CD1b Lymph Dendritic Cells to Present Salmonella Antigens to Naive T Cells. PLoS One. 7: e30430. 9. Lacroux, C. <i>et al.</i> (2012) Prionemia and leukocyte-platelet-associated infectivity in sheep transmissible spongiform encephalopathy models. J Virol. 86 (4): 2056-66. 10. Flameng, W. <i>et al.</i> (2014) Coating with fibronectin and stromal cell-derived factor-1α of decellularized homografts used for right ventricular outflow tract reconstruction eliminates immune response-related degeneration. J Thorac Cardiovasc Surg. 147 (4): 1398-404.e2.
Storage	<p>This product is shipped at ambient temperature.</p> <p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA2221PE>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Product inquiries: 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
'M444813:250721'

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