

Datasheet: MCA2221PE

BATCH NUMBER 151292

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 antibody 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 antibody 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	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 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 10ul of the suggested working dilution to label 1 x 10 ⁶ cells in 100ul.
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>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product is photosensitive and should be protected from light.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2221PE 20487

Related Products

Recommended Negative Controls

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

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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

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