

Datasheet: MCA2221PE

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	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	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
Immunogen	Ovine thymocytes.		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.		
Specificity	Mouse anti Sheep CD45R antibody, clone 20.96 recognises 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 1×10^6 cells in 100ul.

-
- References**
1. Mackay, C. *et al.* (1987) A monoclonal antibody to the p220 component of sheep LCA identifies B cells and a unique lymphocyte subset. [Cell. Immunol. 110: 46 -55.](#)
 2. Lacroux, C. *et al.* (2012) Prionemia and leukocyte-platelet-associated infectivity in sheep transmissible spongiform encephalopathy models. [J Virol. 86 \(4\): 2056-66.](#)
 3. Dutia, B.M. *et al.* (1993) Analysis of the monoclonal antibodies comprising WC6. [Vet Immunol Immunopathol. 39: 193-9.](#)
 4. Lee, C.S. *et al.* (1988) Identification of a unique lymphocyte subpopulation in the sheep uterus. [Immunology. 63: 157-64.](#)
 5. Debes, G.F. *et al.* (2005) Chemokine receptor CCR7 required for T lymphocyte exit from peripheral tissues. [Nat Immunol. 6: 889-94.](#)
 6. Sedgmen, B.J. *et al.* (2002) Cellular and molecular characterisation of the ovine rectal mucosal environment. [Vet Immunol Immunopathol. 86: 215-20.](#)
 7. Olivier, M. *et al.* (2012) Capacities of Migrating CD1b Lymph Dendritic Cells to Present Salmonella Antigens to Naive T Cells. [PLoS One. 7: e30430.](#)
 8. Boppana, D.K. *et al.* (2005) Cellular infiltration at skin lesions and draining lymph nodes of sheep infested with adult *Hyalomma anatolicum anatolicum* ticks. [Parasitology. 131: 657-67.](#)
 9. Leemans, I. *et al.* (2001) Comparative studies on surface phenotypes of Theileria lestoquardi and T. annulata schizont-infected cells. [Parasitol Res. 87: 768-77.](#)
 10. Tanaka, Y. *et al.* (2008) Sustained macroscopic engraftment of cynomolgus embryonic stem cells in xenogeneic large animals after in utero transplantation. [Stem Cells Dev. 17: 367-81.](#)

Storage Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M300899:170106'

Printed on 05 May 2018