

Datasheet: MCA6049PE

Description:	MOUSE ANTI PIG CD45RC:RPE
Specificity:	CD45RC
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	3a56
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 - 1/10
Immunofluorescence			▪	

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	Pig		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

Preparation Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin
 5% Sucrose

Specificity **Mouse anti Pig CD45RC, clone 3a56** recognizes a restricted CD45 epitope encoded by the CD45 C exon and will detect the ~210 kDa RC isoform.

CD45 in pigs has three cell surface expressed isoforms: CD45R, CD45RA, and CD45RC ([Schnitzlein and Zuckermann 1998](#)). CD45RC is mainly expressed by CD4+ T cells and weakly by B cells ([Piriou-Guzylack and Salmon 2008](#)). However, during the immune response expression of CD45RC was found to decrease in activated T-helper cells ([Saalmuller et al. 2002](#)). In contrast,

increased expression of CD45RC was observed during the maturation of CD4- gamma delta thymocytes ([Sinkora et al. 2005](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

Further Reading

1. Zuckermann, F.A. *et al.* (2001) Characterization of monoclonal antibodies assigned to the CD45 subgroup of the Third International Swine CD Workshop. [Vet Immunol Immunopathol. 80 \(1-2\): 165-74.](#)
2. Piriou-Guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39 \(6\): 54.](#)
3. Schnitzlein, W.M. & Zuckermann, F.A. (1998) Determination of the specificity of CD45 and CD45R monoclonal antibodies through the use of transfected hamster cells producing individual porcine CD45 isoforms. [Vet Immunol Immunopathol. 60 \(3-4\): 389-401.](#)
4. Saalmüller, A. *et al.* (2002) T-helper cells from naive to committed. [Vet Immunol Immunopathol. 87 \(3-4\): 137-45.](#)
5. Sinkora, M. *et al.* (2005) Development of gammadelta thymocyte subsets during prenatal and postnatal ontogeny. [Immunology. 115 \(4\): 544-55.](#)

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. 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 #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 \(MCA928PE\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD3:FITC \(MCA5951F\)](#)

[MOUSE ANTI PIG CD8 BETA CHAIN:FITC \(MCA5954F\)](#)

[MOUSE ANTI PIG CD4:Alexa Fluor® 647 \(MCA6045A647\)](#)

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

'M368656:200529'

Printed on 11 Aug 2020

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)