

Datasheet: MCA6049GA

BATCH NUMBER 1803

Description:	MOUSE ANTI PIG CD45RC
Specificity:	CD45RC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3a56
Isotype:	IgG1
Quantity:	0.1 mg

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 - 1/100

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
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
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 ([Saalmüller *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 or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Recommended Useful Reagents

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

[MOUSE ANTI PIG CD8 BETA CHAIN \(MCA5954GA\)](#)

[MOUSE ANTI PIG CD4:FITC \(MCA6045F\)](#)

[MOUSE ANTI PIG CD5:FITC \(MCA2307F\)](#)

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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
'M368655:200529'

Printed on 08 Feb 2023

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