

## Datasheet: MCA1857

<b>Description:</b>	MOUSE ANTI PIG CD45RC
<b>Specificity:</b>	CD45RC
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIL5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 ml

## Product Details

**RRID** AB\_323092

**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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen	▪			1/5
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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** Pig

**Product Form** Tissue Culture Supernatant - liquid

**Preservative Stabilisers** 0.09% Sodium Azide

**Immunogen** Porcine PBMC.

**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X.63.Ag8 myeloma cell line.

**Specificity** **Mouse anti Pig CD45RC, clone MIL5** recognizes a restricted CD45 epitope encoded by the CD45 C exon and will bind and immunoprecipitate both the 210kDa RC and 226kDa RAC isoforms. The antibody has been reported to be suitable for detection of CD45RC in Western blots. MIL5, binds to an epitope alternative to that bound by clone [MIL15](#), also against CD45RC differing in their ability to stain B cells in tissue sections ([Zuckerman, F. A. et al. 2001](#)).

**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

**References**

1. Zuckermann, F.A. *et al.* (1998) Definition of the specificity of monoclonal antibodies against porcine CD45 and CD45R: report from the CD45/CD45R and CD44 subgroup of the Second International Swine CD Workshop. [Vet Immunol Immunopathol. 60 \(3-4\): 367-87.](#)
2. 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.](#)
3. Haverson, K. *et al.* (1999) T-cell populations in the pig intestinal lamina propria: memory cells with unusual phenotypic characteristics. [Immunology 96: 66-73.](#)
4. 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.](#)
5. Terzic, S. *et al.* (2002) Immunophenotyping of leukocyte subsets in peripheral blood and palatine tonsils of prefattening pigs. [Vet Res Commun. 26: 273-83.](#)
6. Bozic, F. *et al.* (2002) Recruitment of intestinal CD45RA+ and CD45RC+ cells induced by a candidate oral vaccine against porcine post-weaning colibacillosis. [Vet Immunol Immunopathol. 86: 137-46.](#)

**Further Reading** 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life** 18 months from date of despatch.

**Health And Safety Information** Material Safety Datasheet documentation #10055 available at: 10055: <https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf>

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),  
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

## Recommended Negative Controls

### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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