Datasheet: MCA6045GA

BATCH NUMBER 154303

Description:	MOUSE ANTI PIG CD4
Specificity:	CD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	b38c6c7
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 - 1/50

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
Immunogen	Porcine leukocytes

Specificity	**Mouse anti Porcine CD4, clone b38c6c7** recognizes a ~55 kDa porcine homologue of the human CD4 antigen found on the surface of T helper cells. Clone b38c6c7 was confirmed to bind to a member of the CD4 alpha cluster at the 'Third International Workshop on Swine Leukocyte Differentiation Antigens' (Haverson *et al.* 2001). Porcine CD4 is a type 1 transmembrane member of the immunoglobulin superfamily. Pigs are unusual among mammalian species as they appear to have four populations of resting T lymphocytes. In addition to CD4+/CD8- and CD4-/CD8+ lymphocytes they also appear to have significant populations of CD4-/CD8- and CD4+/CD8+ cells. Lymphoblasts with a double positive phenotype have been described in other species but not in the case of mature peripheral T cells (Saalmuller *et al.* 1987).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul
References	1. Saalmüller A *et al.* (2001) Summary of workshop findings for porcine T-lymphocyte-specific monoclonal antibodies. Vet Immunol Immunopathol. 80 (1-2): 35-52. 2. Gabner, S.,*et al.* (2014) Immune response to Cystoisospora suis in piglets: local and systemic changes in T-cell subsets and selected mRNA transcripts in the small intestine. Parasite Immunology 36: 277–291
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. 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: https://www.bio-rad-antibodies.com/SDS/MCA6045GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG1 (STAR132...) RPE

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents

MOUSE ANTI PIG CD3:FITC (MCA5951F)
MOUSE ANTI PIG CD45 (MCA1222GA)
MOUSE ANTI PIG wCD8 ALPHA (MCA1223GA)

MOUSE ANTI PIG CD8 BETA CHAIN (MCA5954GA)
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

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