

Datasheet: MCA2600GA

BATCH NUMBER 158540

Description:	MOUSE ANTI PIG GRANULOCYTES
Specificity:	GRANULOCYTES
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2B2
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	▪			1/100 - 1/200

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 bone marrow hematopoietic cells (BMHC)

Fusion Partners	Spleen cells from immunized Balb/c mouse were fused with cells of the Sp2/0 mouse myeloma cell line
Specificity	<p>Mouse anti Pig granulocytes antibody, clone 2B2 recognizes porcine basophils, neutrophils and eosinophils, acting as a reliable tool for their analysis and isolation, without contamination from other cells.</p> <p>Analysis of porcine bone marrow and blood shows that the antigen recognized by clone 2B2 is selectively expressed on mature cells and that it is likely to be a labile conformational epitope. Use of clone 2B2 in conjunction with clone 6D10 product code (MCA2599GA), allows for the discrimination and characterization of different porcine granulocyte lineages and also their developmental stages: 6D10⁻2B2⁻ early myeloid precursors, 6D10⁺2B2⁻ immature neutrophils, 6D10⁺2B2⁺ mature neutrophils and 6D10⁻2B2⁺ mature eosinophils and basophils. Clone 2B2 has been shown as suitable for use on cytopins (Pérez et al. 2007).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Pérez, C. <i>et al.</i> (2007) Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. Dev Comp Immunol. 31 (3): 296-306. 2. Nguyen, D.N. <i>et al.</i> (2016) Delayed development of systemic immunity in preterm pigs as a model for preterm infants. Sci Rep. 6: 36816. 3. Andersen, A.D. <i>et al.</i> (2019) Synbiotics Combined with Glutamine Stimulate Brain Development and the Immune System in Preterm Pigs. J Nutr. 149 (1): 36-45. 4. LeLuduec, J.B. <i>et al.</i> (2016) Intradermal vaccination with un-adjuvanted sub-unit vaccines triggers skin innate immunity and confers protective respiratory immunity in domestic swine. Vaccine. 34 (7): 914-22.
Further Reading	1. Piriou-guzylack, L. & Salmon, H. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39 (6): 54.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

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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
'M387307:210622'

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