

Datasheet: MCA2599A647

Description:	MOUSE ANTI PIG GRANULOCYTES:Alexa Fluor®647
Specificity:	GRANULOCYTES (NEUTROPHIL LINEAGE)
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	6D10
Isotype:	IgG2a
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 - 1/2

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 Alexa Fluor 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		
Immunogen	Porcine bone marrow haematopoietic cells (BMHC).		
Fusion Partners	Spleen cells from immunised Balb/c mouse were fused with cells of the SP2/0 mouse myeloma cell line.		
Specificity	Mouse anti Pig Granulocytes antibody, clone 6D10 recognizes a ~60 kDa antigen on porcine granulocytes of the neutrophil lineage, acting as a reliable tool for their analysis and isolation,		

without contamination from other cells.

Expression of the antigen recognized by clone 6D10 decreases from the immature promyelocytes, through myelocytes and metamyelocytes, to the mature neutrophils, thereby enabling the identification of neutrophil developmental stages. Furthermore, use of clone 6D10 in conjunction with clone 2B2 ([MCA2600](#)), allows for the discrimination and characterisation 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.

Mouse anti Pig Granulocytes antibody, clone 6D10 has been shown as suitable for use on cytopins ([Perez et al. 2007](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

References

1. Pérez, C. *et al.* (2007) Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. [Dev Comp Immunol. 31 \(3\): 296-306.](#)
2. Stone, J.P. *et al.* (2016) Altered Immunogenicity of Donor Lungs via Removal of Passenger Leukocytes Using *Ex Vivo* Lung Perfusion. [Am J Transplant. 16 \(1\): 33-43.](#)
3. Ezquerra, A. *et al.* (2009) Porcine myelomonocytic markers and cell populations. [Dev Comp Immunol. 33 \(3\): 284-98.](#)
4. Gardner, D.S. *et al.* (2016) Remote effects of acute kidney injury in a porcine model. [Am J Physiol Renal Physiol. 310 \(4\): F259-71.](#)
5. Nguyen, D.N. *et al.* (2016) Delayed development of systemic immunity in preterm pigs as a model for preterm infants. [Sci Rep. 6: 36816.](#)

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.
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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA929A647\)](#)

Recommended Useful Reagents

[MOUSE ANTI PIG CD172a:FITC \(MCA2312F\)](#)

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