

Datasheet: MCA6446A647

Description:	MOUSE ANTI PIG CLEC12B:Alexa Fluor® 647
Specificity:	CLEC12B
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	PELE6
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 - 1/5

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 A 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		
Specificity	Mouse anti-Pig CLEC12B antibody, clone PELE6 recognizes pig CLEC12B.		

CLEC12B is a C-type lectin-like receptor expressed on myeloid cells, playing a role in immune regulation and pathogen recognition. In pigs, CLEC12B is prominently expressed on alveolar macrophages and, to a lesser extent, on myeloid dendritic cells and plasmacytoid dendritic cells. CLEC12B is not expressed on monocytes, monocyte-derived macrophages, and monocyte-derived dendritic cells.

Mouse anti-Pig CLEC12B antibody, clone PELE6, has been instrumental in characterizing the expression of CLEC12B on porcine alveolar macrophages and dendritic cells. This antibody has played a crucial role in characterizing CLEC12B expression and examining its function in immune responses, particularly in the context of microbial infections and vaccination strategies. Mouse anti-Pig CLEC12B binds and is efficiently internalized in dendritic cells without significantly altering cytokine secretion, making it a valuable tool for studying antigen delivery and vaccine efficacy in porcine models ([Nieto-Pelegri *et al.* 2020](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References 1. Nieto-Pelegri, E. *et al.* (2020) Porcine CLEC12B is expressed on alveolar macrophages and blood dendritic cells. [Dev Comp Immunol. 111](#)

Storage 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 $2-8^{\circ}\text{C}$ for short term use (up to 4 weeks) and store the remaining aliquots at -20°C .

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Acknowledgements This product is sold under a license from Spanish National Research Council (CSIC). This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6446A647>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M450370:260313'

Printed on 13 Mar 2026

© 2026 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)