

Datasheet: MCA6446A647

**BATCH NUMBER 172009**

<b>Description:</b>	MOUSE ANTI PIG CLEC12B:Alexa Fluor® 647
<b>Specificity:</b>	CLEC12B
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PELE6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Pig		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	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](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

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**References**

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

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**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°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.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M446221:251024'

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