

## Datasheet: MCA6446GA

**BATCH NUMBER 172007**

<b>Description:</b>	MOUSE ANTI PIG CLEC12B
<b>Specificity:</b>	CLEC12B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	PELE6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/25 - 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.

<b>Target Species</b>	Pig
<b>Product Form</b>	Purified IgG - liquid
<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 Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Specificity</b>	<b>Mouse anti-Pig CLEC12B antibody, clone PELE6</b> 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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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
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<b>References</b>	1. Nieto-Pelegri, E. <i>et al.</i> (2020) Porcine CLEC12B is expressed on alveolar macrophages and blood dendritic cells. <a href="#">Dev Comp Immunol. 111</a>
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<b>Storage</b>	<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>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	This product is sold under a license from Spanish National Research Council (CSIC).
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6446GA">https://www.bio-rad-antibodies.com/SDS/MCA6446GA</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

## Recommended Negative Controls

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

**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)

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