

Datasheet: MCA6446GA

Description:	MOUSE ANTI PIG CLEC12B
Specificity:	CLEC12B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PELE6
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	▪			1/25 - 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.

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
Approx. Protein Concentrations	IgG concentration 1.0 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. <i>et al.</i> (2020) Porcine CLEC12B is expressed on alveolar macrophages and blood dendritic cells. Dev Comp Immunol. 111
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
Acknowledgements	This product is sold under a license from Spanish National Research Council (CSIC).
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6446GA
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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

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

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