Datasheet: MCA6112F

BATCH NUMBER 164946

Description:	MOUSE ANTI PIG CD205:FITC
Specificity:	CD205
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	ZH9F7
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	▪			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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

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 (NaN_3)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen	Pig CD205
Specificity	**Mouse anti Pig CD205, clone ZH9F7** recognizes the endocytic receptor CD205, also known as DEC205. CD205 is expressed at high levels by dendritic cell (DC) subsets and can be detected on thymic epithelial cells (Flores-Mendoza *et al.* 2010). CD205 is also expressed on monocytes and can be detected at low levels on lymphocytes. Mouse anti Pig CD205 antibody, clone ZH9F7, has been used in characterization of the species-conserved features of the cDC1 subset. This subset is characterized by high surface expression of CD205, CD135, CADM1, low levels of CD172a, a lack of CD115, XCR1, and BATF3; and restricted APN gene expression (Auray *et al.* 2016). CD205 receptor expression was confirmed in cDC1 and cDC2 subsets using flow cytometry on porcine tonsil, submaxillary and mesenteric lymph nodes, and spleen lymphoid tissues (Parra-Sanchez *et al.* 2018).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
References	1. Auray, G. *et al.* (2016) Characterization and Transcriptomic Analysis of Porcine Blood Conventional and Plasmacytoid Dendritic Cells Reveals Striking Species-Specific Differences. J Immunol. 197 (12): 4791-806. 2. Parra-Sánchez, H. *et al.* (2018) Characterization and expression of DEC205 in the cDC1 and cDC2 subsets of porcine dendritic cells from spleen, tonsil, and submaxillary and mesenteric lymph nodes. Mol Immunol. 96: 1-7. 3. Bustamante-Córdova, L. *et al.* (2019) Evaluation of a Recombinant Mouse X Pig Chimeric Anti-Porcine DEC205 Antibody Fused with Structural and Nonstructural Peptides of PRRS Virus. Vaccines (Basel). 7 (2): 43. 4. Álvarez, B. *et al.* (2023) Porcine Macrophage Markers and Populations: An Update. Cells. 12 (16) :2103.
Further Reading	1. Lilian, F. *et al.* (2010) Characterization of porcine CD205 Developmental & Comparative Immunology. 34 (7): 715-721.
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6112F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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