

Datasheet: MCA6406GA

Description:	MOUSE ANTI PIG CD28
Specificity:	CD28
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3D11
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
Immunogen	A20J cells expressing pig CD28
External Database Links	UniProt:

Specificity	<p>Mouse anti Pig CD28 antibody, clone 3D11 recognizes pig CD28.</p> <p>CD28 is a co-stimulatory cell surface molecule expressed by T cell subsets. CD28 is the receptor for CD80 (B7.1) and CD86 (B7.2). Analogous to humans, CD28 is expressed on naive CD4+ and CD8+ T cells and nearly all CD4+ T cells with a central memory phenotype (CD8a+ CD27+ in pigs) with the latter expressing higher levels of CD28 than naive T cells. Approximately 50% of CD4+ effector memory T cells bear CD28; at levels similar to central memory CD4+ T cells.</p> <p>Mouse anti Pig CD28 antibody, clone 3D11, has been shown to be able to detect CD28 on CD8+ and CD4+ $\alpha\beta$ T-cells (Uehlein et al. 2021). Among $\gamma\delta$ T cells, a small CD2+ subpopulation of phenotypically naive cells express CD28. <i>In vitro</i>, clone 3D11 can co-stimulate porcine T cells, inducing increased proliferation and cytokine secretion.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
References	<ol style="list-style-type: none">1. Hoog, A. <i>et al.</i> (2022) Identification of CD4(+) T cells with T follicular helper cell characteristics in the pig. Dev Comp Immunol. 134: 104462.2. Vatzia, E. <i>et al.</i> (2019) Deoxynivalenol Affects Proliferation and Expression of Activation-Related Molecules in Major Porcine T-Cell Subsets. Toxins (Basel). 11 (11): 644.3. Li, Y. <i>et al.</i> (2022) Systemic CD4 cytotoxic T cells improve protection against PRRSV-1 transplacental infection. Front Immunol. 13: 1020227.
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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6406GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)

Recommended Negative Controls

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

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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M426747:240228'

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