

Datasheet: MCA6165GA

BATCH NUMBER 163294

Description:	MOUSE ANTI PIG CD282
Specificity:	CD282
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1H11
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	▪			

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 (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	NIH/3T3 mouse cells transfected with plasmid pTLR2-GFP, encoding the porcine TLR2 tagged with the green fluorescent protein (GFP) on the carboxy-terminal end

**External Database
Links**

UniProt:

[Q59HI8](#)

[Related reagents](#)

Specificity

Mouse anti Pig CD282, clone 1H11 recognizes CD282, also known as toll-like receptor 2 (TLR2).

Toll like receptors are a family of pattern-recognition receptors involved in the activation and regulation of inflammatory and immune responses activated by invasion of host tissues by microbial pathogens. TLR2 plays a role in a range of infections including gram-positive bacteria, mycobacteria, and yeast. It is activated by PAMPs, signals to NF-kappa-B which in turn induces cytokine secretion and the inflammatory response.

Clone 1H11 was used to characterize the expression of porcine TLR2; cells of the innate immune system - monocytes, macrophages, and granulocytes, but not on peripheral blood lymphocytes were found to express porcine TLR2. Swine neutrophils express low levels of TLR2. It is also expressed on epithelial cells lining the tracheobronchial and intestinal tracts, bile ducts in the liver and renal tubules, and on the basal layer of the epidermis ([Alvarez et al 2008](#)).

Flow Cytometry

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

References

1. Álvarez-Estrada, Á. *et al.* (2019) TLR2, Siglec-3 and CD163 expressions on porcine peripheral blood monocytes are increased during sepsis caused by *Haemophilus parasuis*. [Comp Immunol Microbiol Infect Dis. 64: 31-39.](#)
2. Álvarez, B. *et al.* (2023) Porcine Macrophage Markers and Populations: An Update. [Cells. 12 \(16\): 2103.](#)

Further Reading

1. Alvarez, B. *et al.* (2013) Antigen targeting to APC: from mice to veterinary species. [Dev Comp Immunol. 41 \(2\): 153-63.](#)

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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6165GA>
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
Rabbit Anti Mouse IgG (STAR13...)	HRP
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , 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

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Printed on 18 Jan 2024