

Datasheet: MCA6165PE

BATCH NUMBER 163297

Description:	MOUSE ANTI PIG CD282:RPE
Specificity:	CD282
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	1H11
Isotype:	IgG1
Quantity:	100 TESTS

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 - 1/2

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		

5% Sucrose

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
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External Database Links	UniProt: Q59HI8 Related reagents
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Specificity	<p>Mouse anti Pig CD282, clone 1H11 recognizes CD282, also known as toll-like receptor 2 (TLR2).</p> <p>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.</p> <p>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).</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
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References	<ol style="list-style-type: none">1. Álvarez-Estrada, Á. <i>et al.</i> (2019) TLR2, Siglec-3 and CD163 expressions on porcine peripheral blood monocytes are increased during sepsis caused by <i>Haemophilus parasuis</i>. Comp Immunol Microbiol Infect Dis. 64: 31-39.2. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. Cells. 12 (16): 2103.
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Further Reading	1. Alvarez, B. <i>et al.</i> (2013) Antigen targeting to APC: from mice to veterinary species. Dev Comp Immunol. 41 (2): 153-63.
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Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA6165PE
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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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