

Datasheet: MCA1971F BATCH NUMBER 159305

Description:	MOUSE ANTI PIG CD16:FITC	
Specificity:	CD16	
Other names:	FcRIII	
Format:	FITC	
Product Type:	Monoclonal Antibody	
Clone:	G7	
Isotype:	lgG1	
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

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

arget Species	Pig		
oduct Form	Purified IgG conjuga	ated to Fluorescein Isoth	niocyanate Isomer 1
x Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
fer Solution	Phosphate buffered 0.09% Sodium Azide		
oilisers	1% Bovine Serun	n Albumin	
prox. Protein ncentrations	IgG concentration 0.	1 mg/ml	

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Porcine peripheral blood leucocytes

External Database Links

UniProt:

Q28942 Related reagents

Entrez Gene:

397684 FCGR3B Related reagents

RRID

AB 2104030

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma cell line

Specificity

Mouse anti Pig CD16, clone G7 recognizes porcine CD16 also known as Fc-gamma RIII or the low affinity IgG (Fc) receptor III. Clone G7 was clustered as CD16 at the Second International Workshop to Define Swine Cluster of Differentiation (CD) Antigens (Saalmuller et al. 1998).

Mouse anti pig CD16 immunoprecipitates a protein of ~40 kDa from porcine neutrophils and NK cells (Wierda et al. 1993). Subsequent cloning and characterization of the G7 molecule indicated that G7 was the porcine homologue of Human CD16 (Halloran et al. 1994).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

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presenting cells by genotype-I porcine reproductive and respiratory syndrome virus

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- isolates. Vet Res. 42: 9.
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- 33. Zhao, H. *et al.* (2022) Development of *RAG2 -^{I-} IL2Ry -^{IY}* immune deficient FAH-knockout miniature pig. <u>Front Immunol. 13: 950194.</u>

Further Reading

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- 2. Gerner W *et al.* (2015) Phenotypic and functional differentiation of porcine $\alpha\beta$ T cells: current knowledge and available tools. <u>Mol Immunol. 66 (1): 3-13.</u>

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. This product is photosensitive and should be protected from light.

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/MCA1971F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

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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 'M385249:210513'

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