

CD16 Monoclonal Antibody (G7), PE

Catalog Number MA1-80267

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Pig
Host/Isotope	Mouse / IgG1	Published species	Pig
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	Neat
Clone	G7	Published Applications	
Immunogen	Porcine peripheral blood leucocytes.	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Lyophilized		
Concentration	Conc. Not Determined		
Purification	Protein A		
Storage buffer	PBS with 1% BSA, 5% sucrose		
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Clone G7 has been reported to block PBL-mediated antibody-dependent cell cytotoxicity (ADCC) and partially inhibit PMN-mediated ADCC. Reconstitute with 1 mL of distilled water. After reconstitution, store product undiluted at 4°C in the dark. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Pig CD16, clone G7 recognizes porcine CD16 also known as Fc-gamma RIII or the low affinity IgG (Fc) receptor III.

Background/Target Information

CD16 encodes a receptor that recognizes the Fc portion of immunoglobulin G and is involved in the clearance of immune complexes from the circulation, as well as other functions such as cellular mediated cytotoxicity and enhancement of virus infections. This gene, FCGR3A, shares a high degree of similarity with another nearby gene, FCGR3B, located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been associated with immunodeficiency 20 and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Diseases associated with FCGR3A include Immunodeficiency 20 and Herpes Zoster.

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1 Flow Cytometry References

Species / Dilution	Summary
Pig / Not Cited	MA180267 was used in flow cytometry to elucidate the interactions of a virulent Sardinian isolate and a tissue culture adapted avirulent strain of African swine fever virus with porcine monocytes
	Veterinary microbiology (2017; 198: 88)
	"Characterization of the interaction of African swine fever virus with monocytes and derived macrophage subsets." Author(s):Franzoni G,Graham SP,Giudici SD,Bonelli P,Pilo G,Anfossi AG,Pittau M,Nicolussi PS,Laddomada A,Oggiano A PubMed Article URL: http://dx.doi.org/10.1016/j.vetmic.2016.12.010

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