

ARG22980 anti-CD16 antibody [G7] (PE)

Package: 50 tests Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [G7] recognizes CD16 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).
Tested Reactivity	Pig
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	G7
lsotype	lgG1
Target Name	CD16
Species	Pig
Immunogen	Porcine peripheral blood leucocytes
Conjugation	PE
Alternate Names	FCRIIIA; FcRIIIa; CD antigen CD16a; Fc-gamma RIII-alpha; FCR-10; FcR-10; FCRIII; FCG3; Low affinity immunoglobulin gamma Fc region receptor III-A; FCGRIII; CD16; Fc-gamma RIIIa; IgG Fc receptor III-2; IMD20; CD16A; IGFR3; CD16a antigen; FCGR3; FcRIII; Fc-gamma RIII

Application Instructions

Application table	Application	Dilution
	FACS	Neat
Application Note		d working dilution to label 10^6 cells in 100 μ l. ended starting dilutions and the optimal dilutions or concentrations entist.

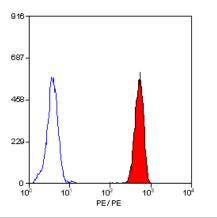
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose
Preservative	0.09% Sodium azide
Stabilizer	1% BSA and 5% Sucrose

Bioinformation

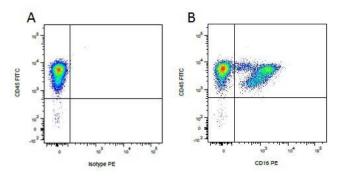
Gene Symbol	FCGR3A
Gene Full Name	Fc fragment of IgG receptor IIIa
Background	This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other other antibody-dependent responses. This gene (FCGR3A) is highly similar to 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, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene 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. [provided by RefSeq, Jul 2008]
Function	Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. [UniProt]
Highlight	Related products: <u>CD16 antibodies;</u> <u>CD16 ELISA Kits;</u> <u>CD16 Duos / Panels;</u> <u>Anti-Mouse IgG secondary antibodies;</u> Related news: <u>Tumor-Infiltrating Lymphocytes (TILs)</u>
Research Area	Developmental Biology antibody; Immune System antibody; General Lymphocyte Marker Study antibody; Natural killer cells antibody
Calculated Mw	29 kDa
РТМ	Glycosylated. Contains high mannose- and complex-type oligosaccharides. Glycosylation at Asn-180 is mandatory for high affinity binding to the Fc and for discrimination between fucosylated and afucosylated IgG glycoforms. The soluble form is produced by a proteolytic cleavage.

Images



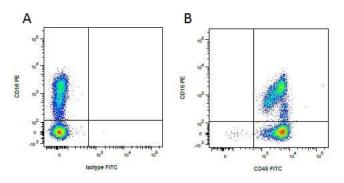
ARG22980 anti-CD16 antibody [G7] (PE) FACS image

Flow Cytometry: Porcine peripheral blood granulocytes stained with ARG22980 anti-CD16 antibody [G7] (PE).



ARG22980 anti-CD16 antibody [G7] (PE) FACS image

Flow Cytometry: Figure A. FITC conjugated mouse anti porcine CD45 and PE conjugated mouse IgG1 isotype control. Figure B. FITC conjugated mouse anti porcine CD45 and ARG22980 anti-CD16 antibody [G7] (PE). All experiments performed on red cell lysed porcine blood gated on mononuclear cells.



ARG22980 anti-CD16 antibody [G7] (PE) FACS image

Flow Cytometry: Figure A. ARG22980 anti-CD16 antibody [G7] (PE) and FITC conjugated mouse lgG1 isotype control. Figure B. ARG22980 anti-CD16 antibody [G7] (PE) and FITC conjugated mouse anti porcine CD45. All experiments performed on red cell lysed porcine blood gated on mononuclear cells.