APC-Labeled Monoclonal Anti-CD16 Antibody, Mouse IgG1 (3G8) (0.03% Proclin)

Catalog # CD6-AFM782

Source

Monoclonal Anti-CD16 Antibody, Mouse IgG1 (3G8) is a mouse monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which provides higher batch consistency and long term security of supply.

Application

Flow Cytometry (Evaluation of the expression of CD16 on Human cells).

Clone

3G8

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Specificity

This product is a specific antibody specifically reacts with CD16 protein. ACROBiosystems offers two anti-CD16 antibodies (clones 3H8B10 and 3G8) that target distinct epitopes on CD16.

Reactivity

Human

Immunogen

Purified Human CD16 Protein

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

Recommended Dilution

1:50

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4) containing 0.03% ProClin 300 and 0.2% BSA, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

For best performance, we strongly recommend following the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored in a lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

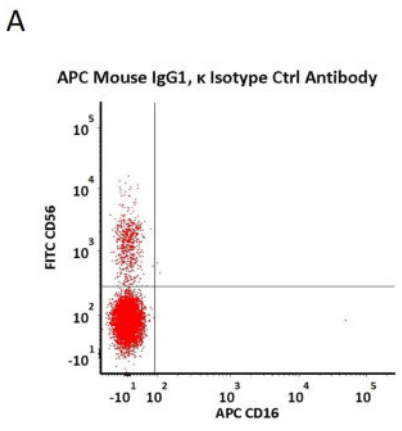
This product is stable after storage at:

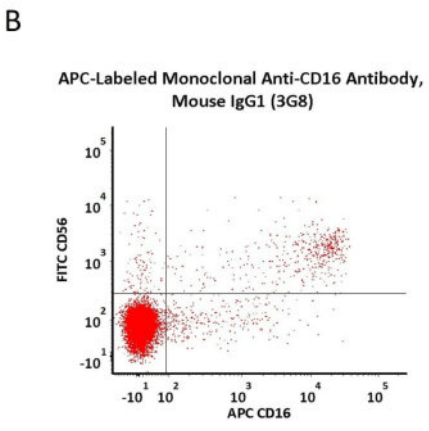
- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months after reconstitution.
- 2-8 °C for 12 months after reconstitution.

ACRO Quality Management System

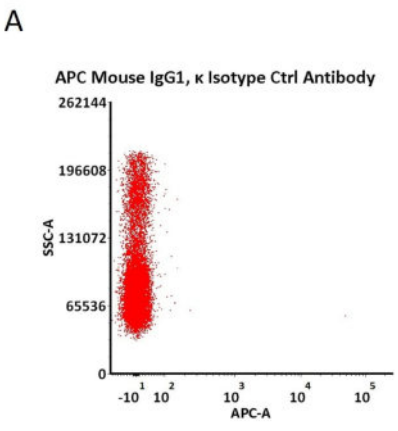
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

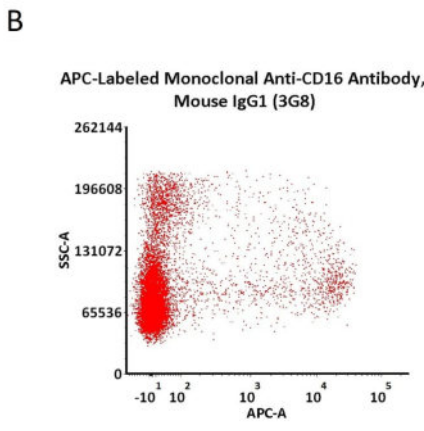
Bioactivity-FACS





Flow cytometric analysis of human peripheral blood lymphocytes respectively staining with APC-Labeled Monoclonal Anti-CD16 Antibody, Mouse IgG1 (3G8) (Cat. No. CD6-AFM782) at 1:50 dilution (2 μL of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μL) and FITC anti-human CD56 Antibody, compared with isotype control antibody. APC signal was used to evaluate the binding activity (QC tested).





Flow cytometric analysis of Human peripheral blood mononuclear cell respectively staining with APC-Labeled Monoclonal Anti-CD16 Antibody, Mouse IgG1 (3G8) (Cat. No. CD6-AFM782) at 1:50 dilution (2 μL of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μL), compared with isotype control antibody. APC signal was used to evaluate the binding activity (QC tested).

Background

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.