

APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Site-specific conjugation) (0.03% Proclin)

Catalog # FM3-AY54A1



Source

APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) is a neutralizing antibody produced via site-specific conjugation of APC to Monoclonal Anti-FMC63 scFv Antibody, Mouse IgG1 under optimal conditions with a proprietary technology.

Application

Flow Cytometry (Evaluation of Anti-CD19 (FMC63 scFv) CAR Expression). Please note that this product is NOT compatible to streptavidin detection system.

Clone

Y45

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Specificity

Specifically recognizes the antigen-recognition domain of FMC63 derived CARs.

Immunogen

Recombinant FMC63 scFv derived from HEK293 cells

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

Recommended Dilution

1:50

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5% BSA, 0.03% Proclin, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

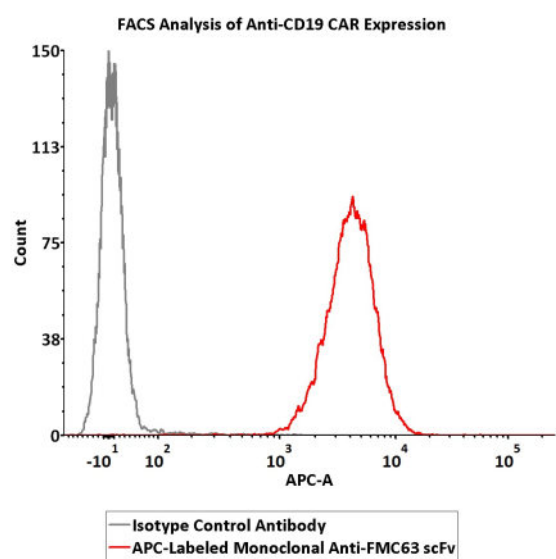
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

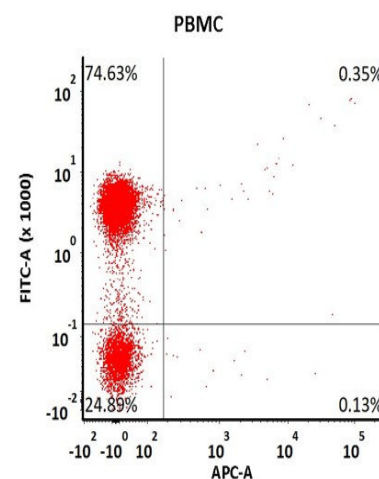
This product is stable after storage at:

- 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.

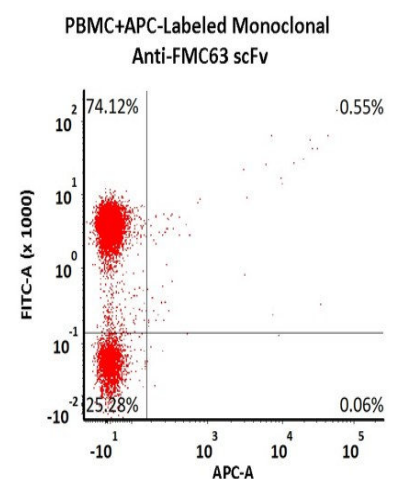
Bioactivity-FACS



A



B



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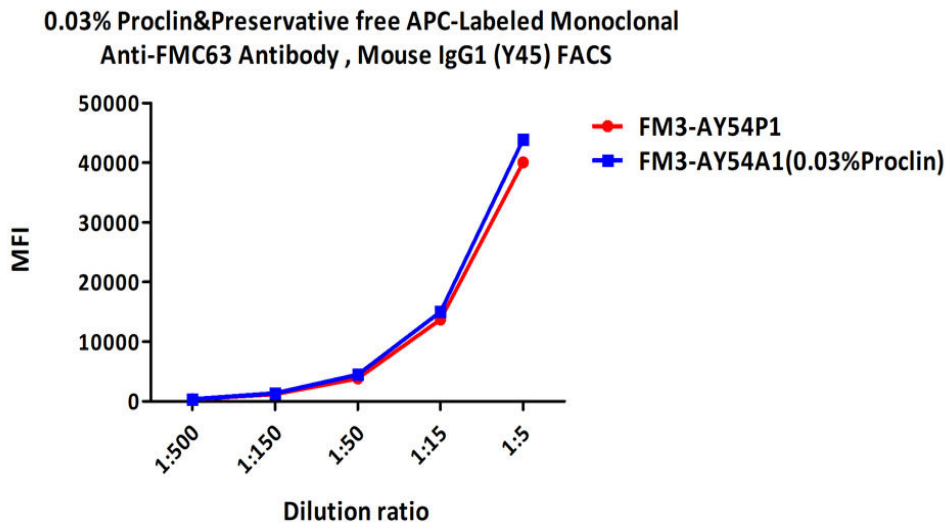
APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Site-specific conjugation) (0.03% Proclin)

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5e5 of anti-CD19 CAR-293 cells were stained with 100 μ L of 1:50 dilution (2 μ L stock solution in 100 μ L FACS buffer) of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54A1) and isotype control antibody respectively. APC signal was used to evaluate the binding activity (QC tested).

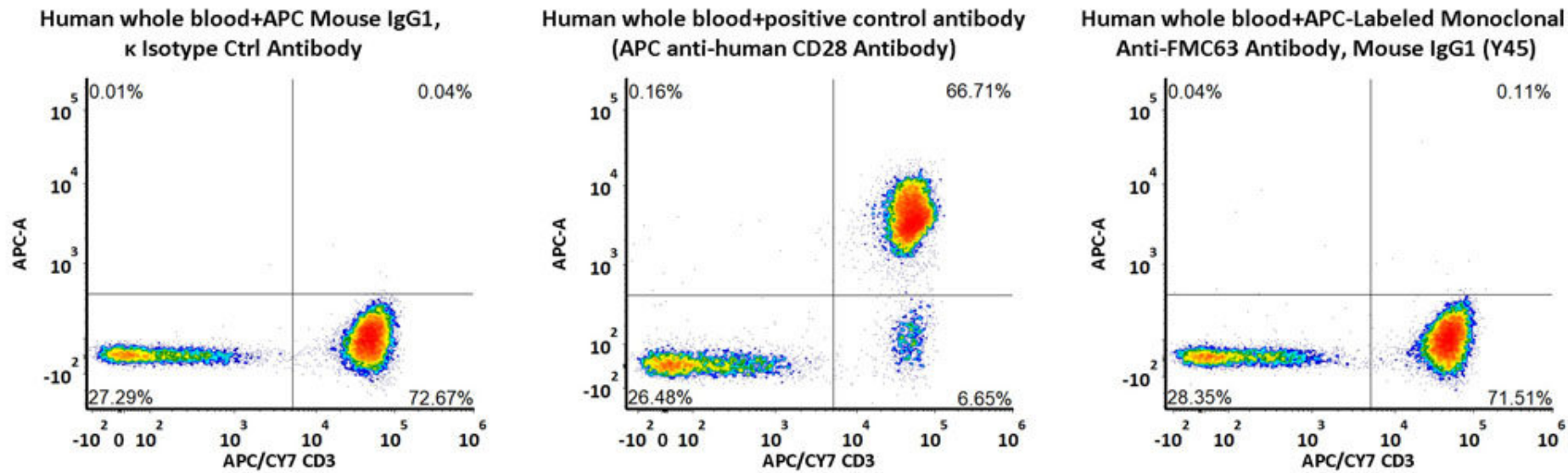
Non-specificity of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54A1) binding to CD3+ cells present in human PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (2 μ L of the antibody stock solution corresponds to labeling of 5e5 cells in a final volume of 100 μ L), washed and then analyzed with FACS. Both FITC and APC positive signals was used to evaluate the non-specific binding activity to human CD3+ cells (QC tested).



Binding activity of the APC-Labeled Monoclonal Anti-FMC63 Antibody before and after adding 0.03% Proclin was evaluated in the above FACS analysis. The result shows that APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Site-specific conjugation) (Cat. No. FM3-AY54P1) and APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Site-specific conjugation) (0.03% Proclin) (Cat. No. FM3-AY54A1) have almost the same binding activity against anti-CD19 CAR-293 cells.

Evaluation of CAR expression

FACS Analysis of Non-specific binding to Human whole blood



Non-specificity of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Site-specific conjugation) (0.03% Proclin)(Cat. No. FM3-AY54A1) binding to CD3+ cells present in human whole blood. 100 μ L of human whole blood were simultaneously stained with APC/Cyanine7 anti-human CD3 Antibody and APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (2 μ L of the antibody stock solution in a final volume of 100 μ L), compared with isotype control antibody and positive control antibody. Both APC/Cyanine7 and APC positive signals was used to evaluate the non-specific binding activity to human CD3+ cells.





Background

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer.

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