

# 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 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  $\mu$ m 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

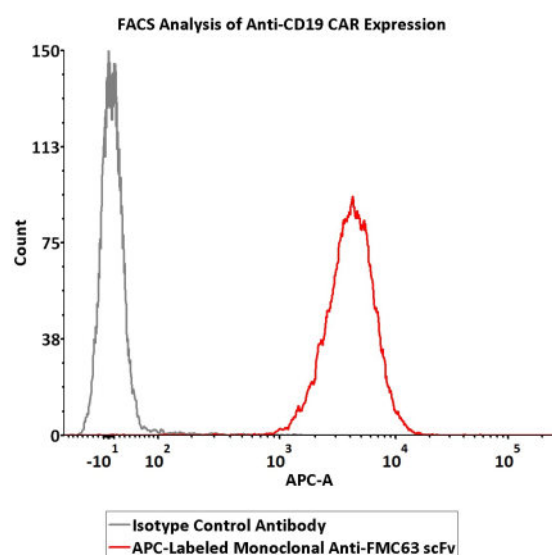
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

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

This product is stable after storage at:

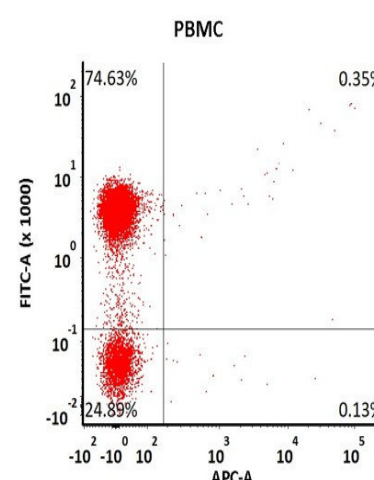
- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 24 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 12 months after reconstitution;
- $2-8^{\circ}\text{C}$  for 12 months after reconstitution.

## Bioactivity-FACS

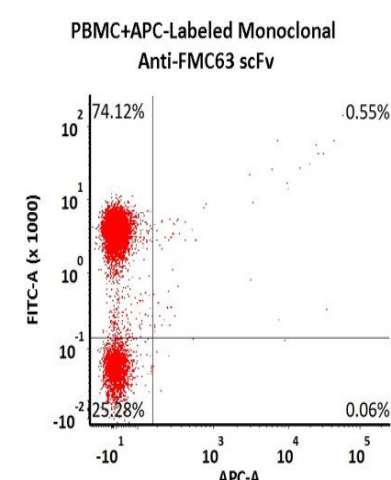


$5 \times 10^5$  of anti-CD19 CAR-293 cells were stained with 100  $\mu$ L of 1:50 dilution (2  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Monoclonal Anti-

A



B



Non-specificity of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54A1) binding to CD3<sup>+</sup> cells present in human

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



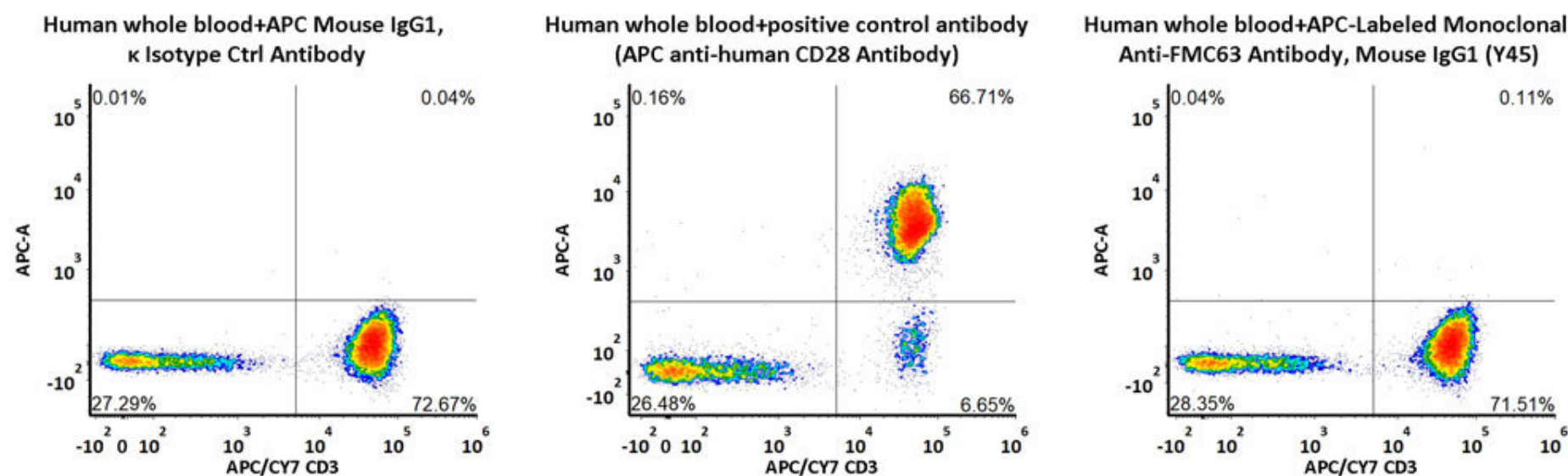
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FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54A1) and isotype control antibody respectively. APC signal was used to evaluate the binding activity (QC tested).

PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (2  $\mu$ L of the antibody stock solution corresponds to labeling of  $5 \times 10^5$  cells in a final volume of 100  $\mu$ 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).

## 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  $\mu$ 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  $\mu$ L of the antibody stock solution in a final volume of 100  $\mu$ 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.

## Clinical and Translational Updates

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