



## Source

APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 is produced via site-specific conjugation of APC to Monoclonal Anti-FMC63 Antibody, Mouse IgG1 under optimal conditions with a proprietary technology. We also carry another proclin-containing version of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (FM3-AY54A1) produced with the same production process except for proclin, and the proclin-containing product has the same performance and can be stored under 2-8 °C for no less than 12 months after reconstitution.

## 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/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, 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.*

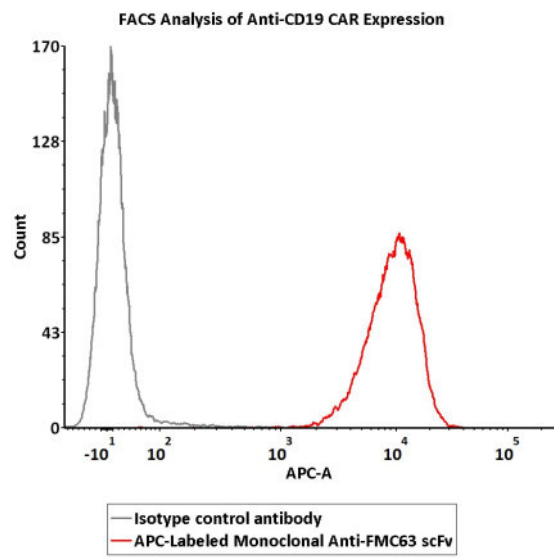
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

## Bioactivity-FACS

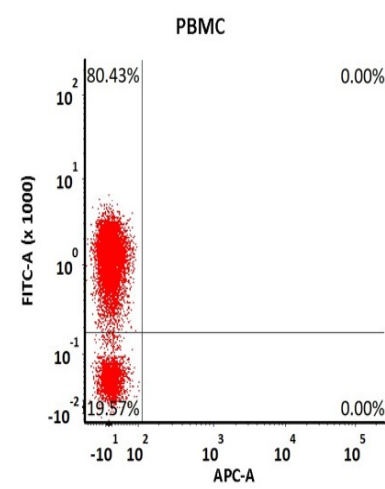
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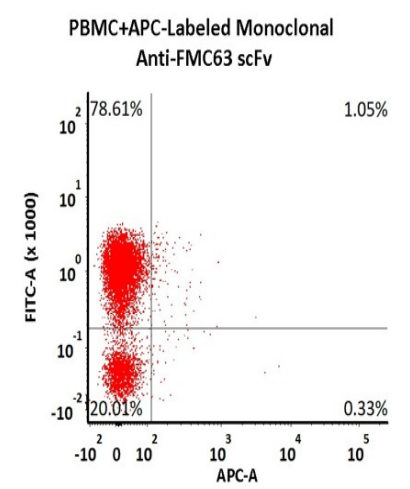


5e5 of anti-CD19 CAR-293 cells were stained with 100  $\mu$ L of 1:50 dilution (2  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54P1) and isotype control antibody respectively. APC signal was used to evaluate the binding activity (QC tested).

A



B



Non-specificity of APC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AY54P1) binding to CD3<sup>+</sup> 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  $\mu$ L of the antibody stock solution corresponds to labeling of 5e5 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<sup>+</sup> cells (QC tested).

## Background

FMC63 is an IgG2a mouse monoclonal antibody specific for CD19, which is a target for the immunotherapy of B lineage leukaemias and lymphomas. FMC63 scFv is the most commonly used ectodomain component of CD19-specific CARs. So far, most of reported CART19 trials contain the anti-CD19 scFv derived from FMC63, including the two FDA-approved CARs Kymriah and Yescarta.

## Clinical and Translational Updates

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