



## Source

FITC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45), premium grade is expressed from human HEK293 cells. It is the FITC labeled form of Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Cat. No. FM3-Y45P1).

*It is designed for cell isolation and cell culture applications, and produced under animal-free manufacturing conditions. No animal derived components are used throughout the production process.*

*It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.*

## Isotype

Mouse IgG1/kappa

## Specificity

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

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 1-4.

## Application

Flow Cytometry (Evaluation of Anti-CD19 (FMC63 scFv) CAR Expression).  
Cell isolation, cell sorting, cell culture, etc.

## Purity

>90% as determined by SDS-PAGE.

## Endotoxin

## Sterility

Negative

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 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 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 3 months under sterile conditions after reconstitution.

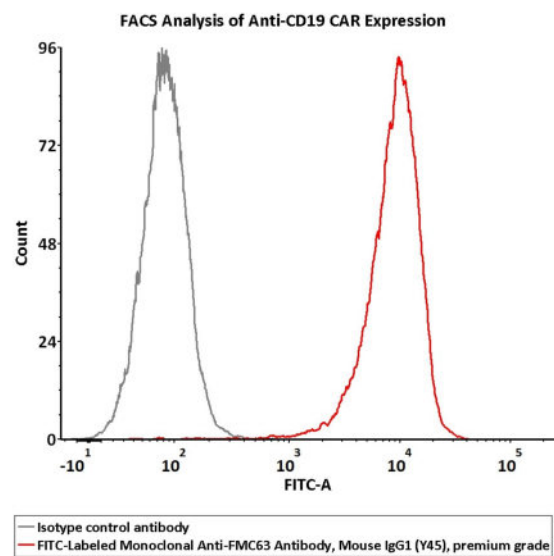
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Less than 0.1 EU per test by the LAL method.

## Bioactivity-FACS



2e5 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 FITC-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45), premium grade (Cat. No. FM3-FY45G0) and Isotype control antibody respectively. FITC signal was used to evaluate the binding activity (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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