



**Source**

Alexa Fluor 647-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) is produced via conjugation of AF647 to Monoclonal Anti-FMC63 Antibody, Mouse IgG1 under optimal conditions with a new generation site-specific technology under Star Staining labeling platform.

**Application**

Flow Cytometry (Evaluation of Anti-CD19 (FMC63 scFv) CAR Expression).

**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**

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

**Recommended Dilution**

1:50

**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.

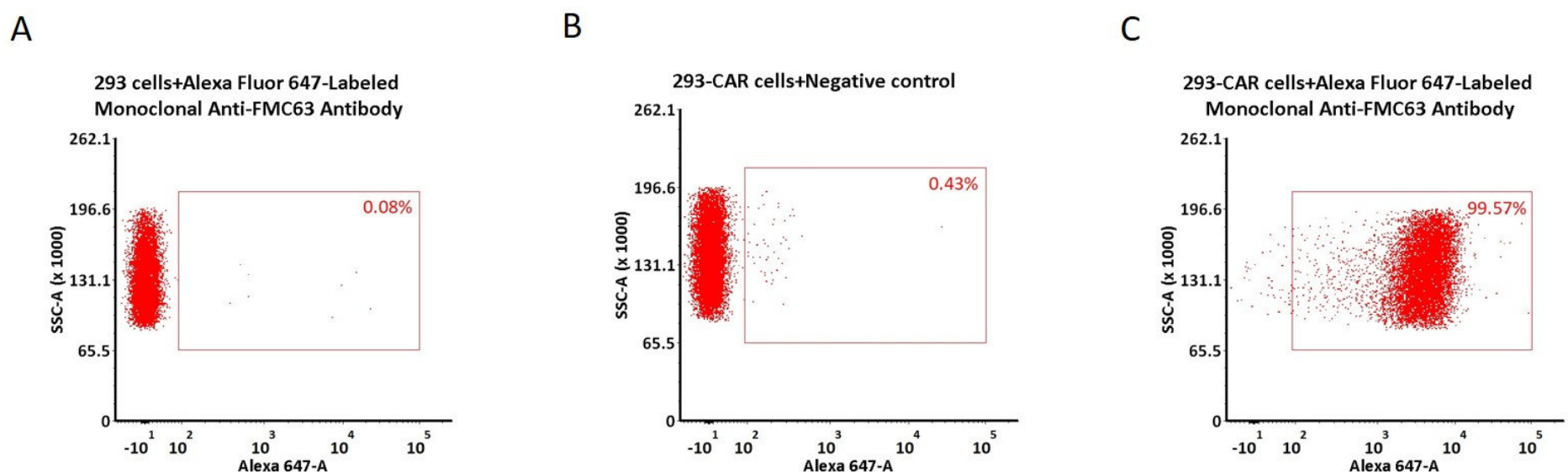
*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

**Evaluation of CAR expression**

FACS Analysis of Anti-FMC63 CAR Expression



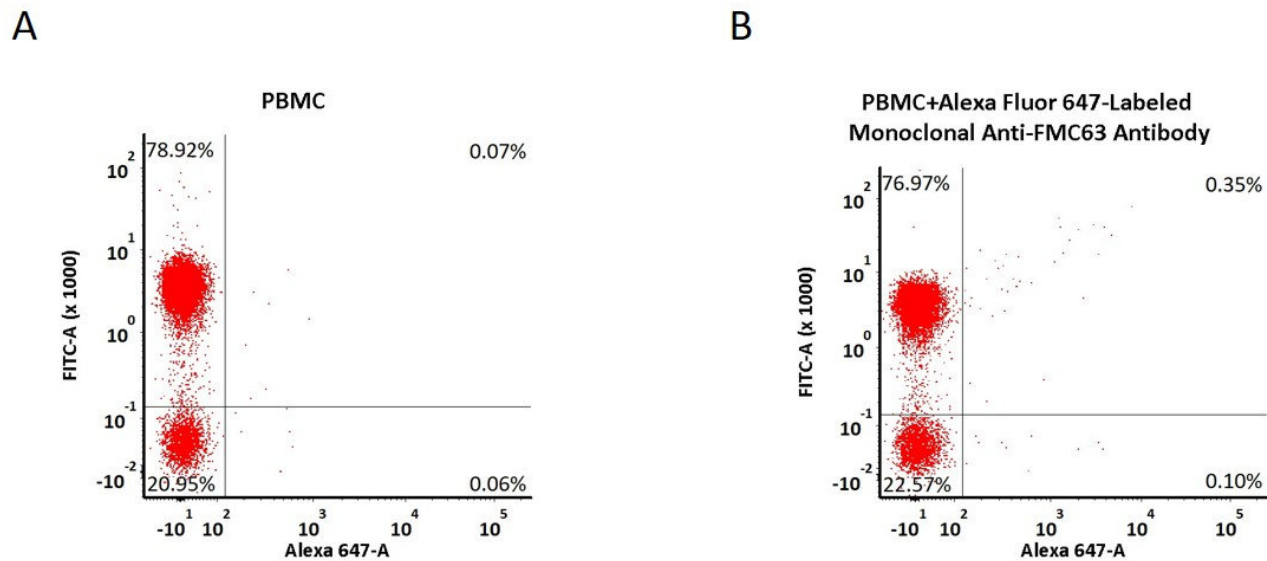
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5e5 of anti-CD19 CAR-293 cells were stained with 100 µL of 1:50 dilution (2 µL stock solution in 100 µL FACS buffer) of Alexa Fluor 647-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AM534) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa 647 signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



5e5 of PBMCs were stained with Alexa Fluor 647-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AM534) and anti-CD3 antibody, washed and then analyzed with FACS. FITC signal was used to evaluate the expression of CD3+ T cells in PBMCs, and Alexa 647 signal was used to evaluate the non-specific binding activity to PBMCs (Routinely 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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