



Source

Alexa Fluor 647-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (FM3-AM534) 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.

Isotype

Mouse IgG1/kappa

Specificity

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

Conjugate

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

Application

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

Endotoxin

Less than 1.0 EU per µg by the LAL method.

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.

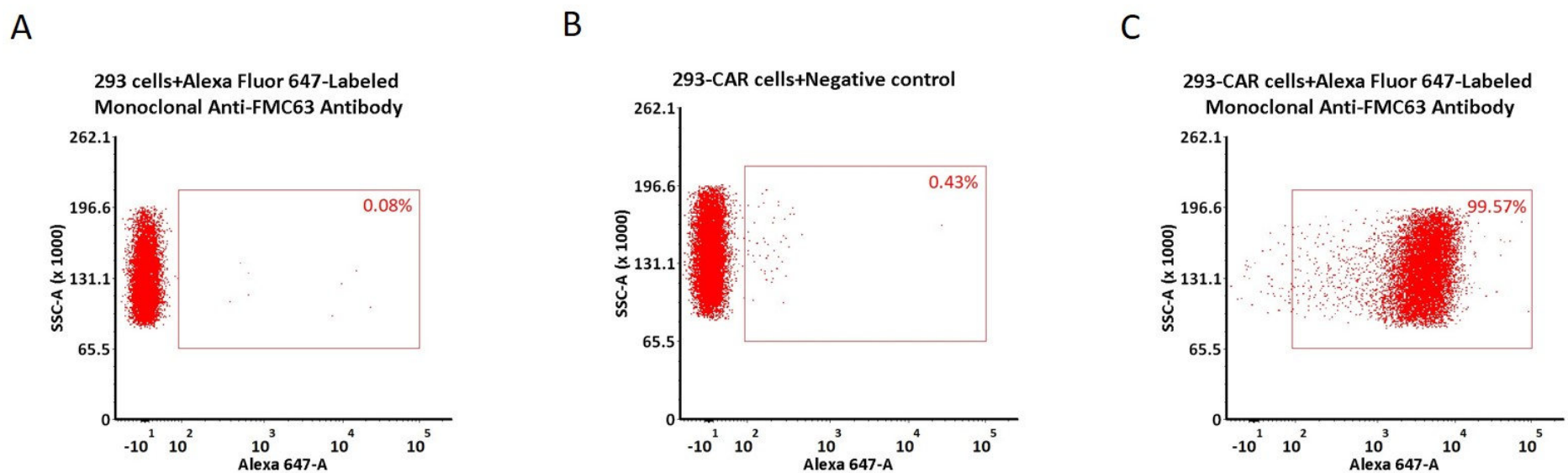
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

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

Evaluation of CAR expression

FACS Analysis of Anti-FMC63 CAR Expression

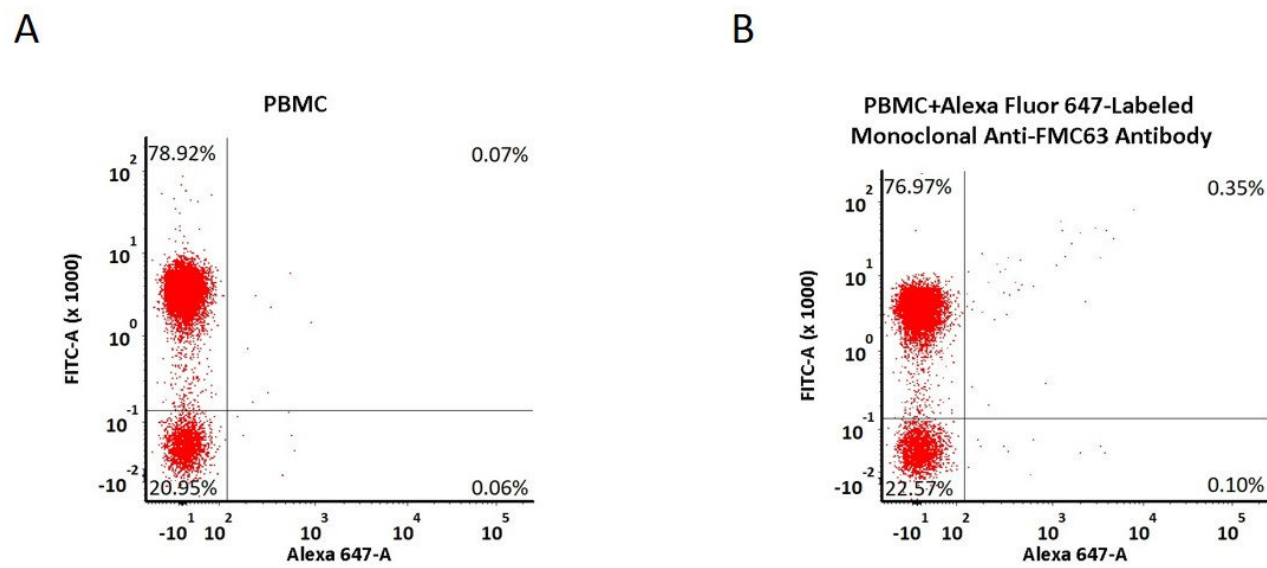


5e5 of anti-CD19 CAR-293 cells were stained with 100 µL of 3 µg/mL of Alexa Fluor 647-Labeled Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-AM534) and negative control respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa 647 signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs

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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 (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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