



**Source**

Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) is a mouse monoclonal antibody produced from hybridoma.

**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**

Unconjugated

**Isotype Control**

The Isotype control is sold separately and you can search for Cat. No. [DNP-MIAI](#) for product information.

**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**

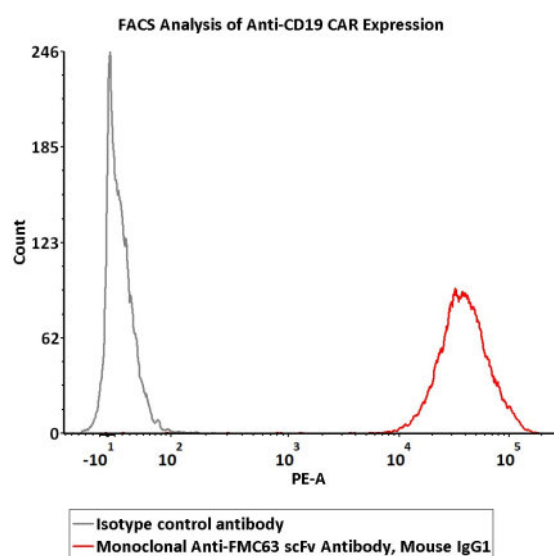
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

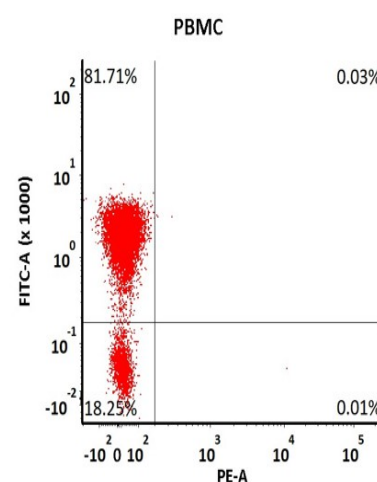
- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

**Bioactivity-FACS**

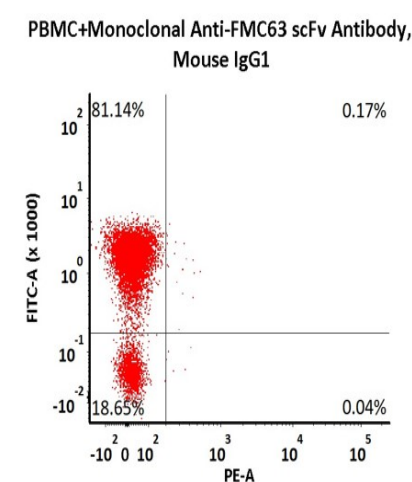


2e5 of anti-CD19 CAR-293 cells were stained with 100 μL of 1:50 dilution (2 μL stock solution in 100 μL FACS buffer) of Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45) and Isotype control antibody respectively. PE signal was used to evaluate the binding activity (QC tested).

A



B



Non-specificity of Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45) binding to CD3<sup>+</sup> cells present in human PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (2 μL of the antibody stock solution corresponds to labeling of 5e5 cells in a final volume of 100

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μL), washed and then analyzed with FACS. Both FITC and PE positive signals was used to evaluate the non-specific binding activity to human CD3+ 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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