Source

Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with FMC63 scFv.

Isotype

Mouse IgG1/kappa

Specificity

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

Application

Flow Cytometry (Evaluation of Anti-CD19 (FMC63 scFv) CAR Expression).
*The Isotype control (Cat. No. DNP-M1A1) is sold separatelyand you can follow this link for product information.

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

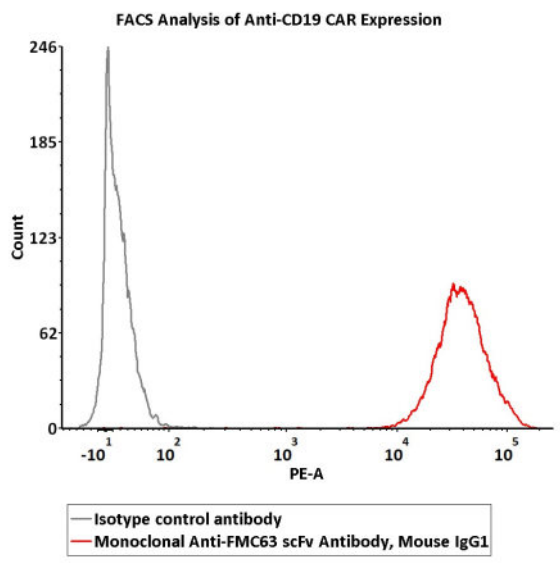
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 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).

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