Biotinylated Monoclonal Anti-FMC63 Antibody, Mouse IgG1, Avitag™ (Y45)

Catalog # FM3-BY54

Source

Monoclonal Anti-FMC63 Antibody, Mouse IgG1, Avitag™ (Y45) is a mouse monoclonal antibody recombinantly expressed from human 293 cells (HEK293). Biotinylation of this antibody is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

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

Biotin

Isotype Control

The Isotype control is sold separately and you can search for Cat. No. ***DNP-BM190*** 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

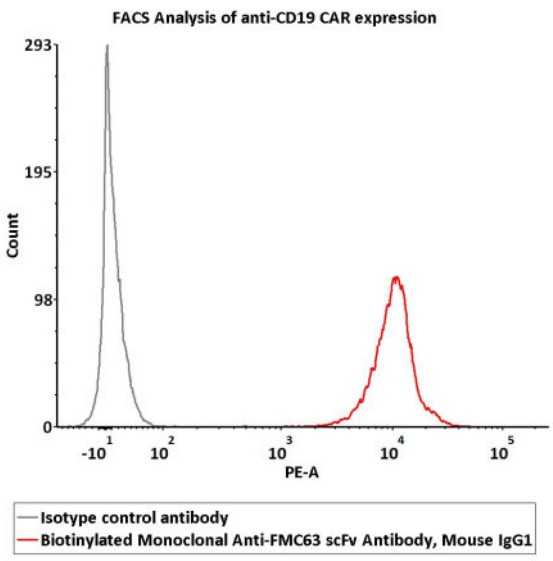
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

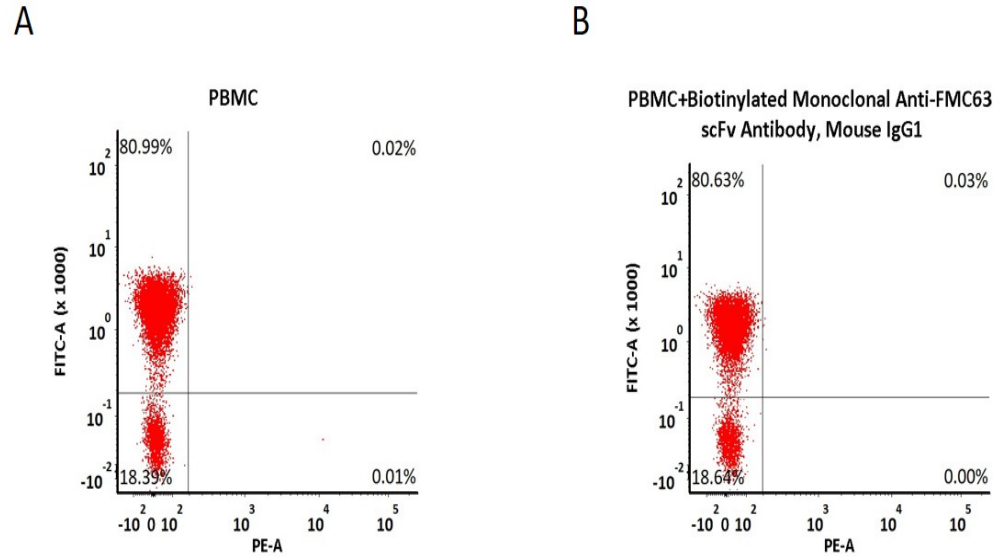
This product is stable after storage at:

- -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) Biotinylated Monoclonal Anti-FMC63 Antibody, Mouse IgG1, Avitag (Cat. No. FM3-BY54) and isotype control respectively, washed and then followed by PE-SA and analyzed with FACS (QC tested).



Non-specificity of Biotinylated Monoclonal Anti-FMC63 Antibody, Mouse IgG1, Avitag (Cat. No. FM3-BY54) binding to CD3+ cells present in human PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and Biotinylated Monoclonal Anti-FMC63 Antibody, Mouse IgG1, Avitag (2 μL of the antibody stock solution corresponds to labeling of

5e5 cells in a final volume of 100 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