



Source

Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a (FMC63) is a mouse monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which provides higher batch consistency and long term security of supply.

Application

Flow Cytometry (Evaluation of the expression of CD19 on Human cells).

Clone

FMC63

Species

Mouse

Isotype

Mouse IgG2a | kappa

Specificity

This product is a specific antibody specifically reacts with CD19 protein.

Reactivity

Human

Immunogen

Human prolymphocytic leukaemia cell line JVM3.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Isotype Control

The Isotype control is sold separately and you can search for Cat. No. [DNP-PM487](#) for product information.

Recommended Dilution

1:50

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.03% Proclin 300, pH7.4, 0.2% BSA 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

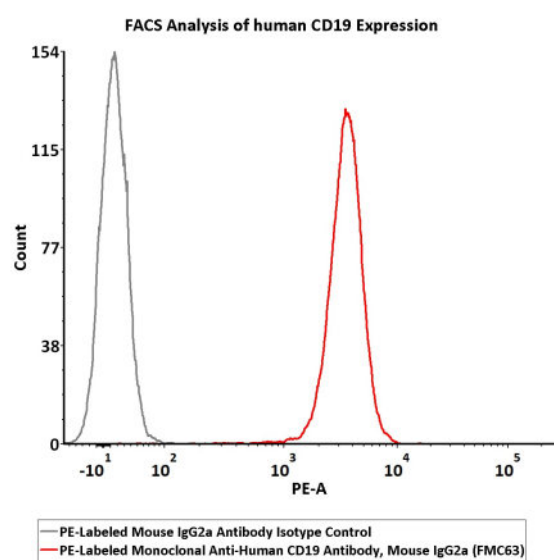
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

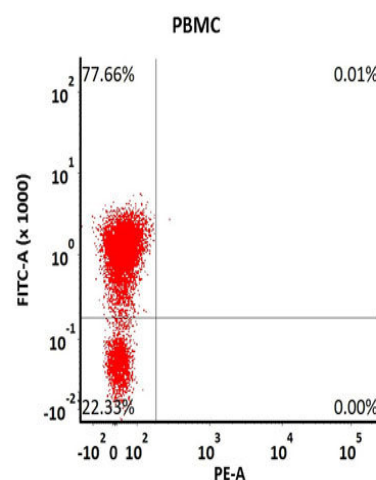
This product is stable after storage at:

- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months after reconstitution.
- 2-8 °C for 12 month after reconstitution.

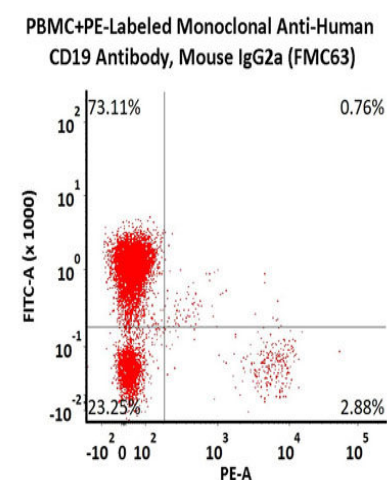
Bioactivity-FACS



A



B



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PE-Labeled Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a (FMC63)

Catalog # FM3-PCFM7



BIOSYSTEMS
Acro

Flow cytometric analysis of HEK293/Human CD19 Stable Cell Line staining with PE-Labeled Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a (FMC63) (Cat. No. FM3-PCFM7) at 1:50 dilution (2 μ L of the antibody stock solution corresponds to labeling of $1e6$ cells in a final volume of 100 μ L), compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

Non-specificity of PE-Labeled Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a (FMC63) (Cat. No. FM3-PCFM7) binding to CD3+ cells present in human PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and PE-Labeled Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a (FMC63) (2 μ L of the antibody stock solution corresponds to labeling of $5e5$ cells in a final volume of 100 μ L), 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 (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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