



**Source**

Monoclonal Anti-FMC63 Antibody, Rabbit IgG (1G10) is a rabbit monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which provides higher batch consistency and long term security of supply. It shows superior performance in flow cytometry assays with higher affinity and better specificity.

**Application**

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

**Clone**

1G10

**Species**

Rabbit

**Isotype**

Rabbit IgG | Rabbit Kappa

**Specificity**

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

**Immunogen**

Recombinant FMC63 scFv derived from HEK293 cells.

**Conjugate**

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

**Recommended Dilution**

1:50

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 0.2% BSA, 0.03% Proclin300 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**

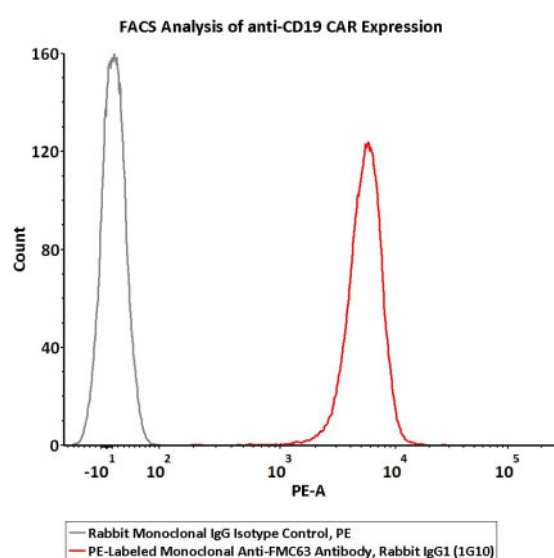
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

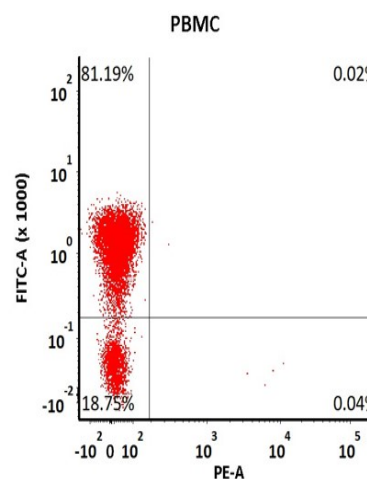
This product is stable after storage at:

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

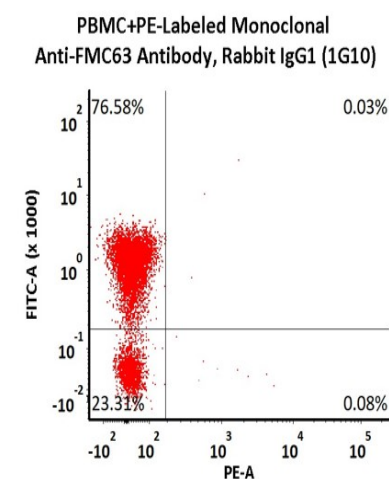
**Bioactivity-FACS**



A



B



Discounts, Gifts,  
and more!



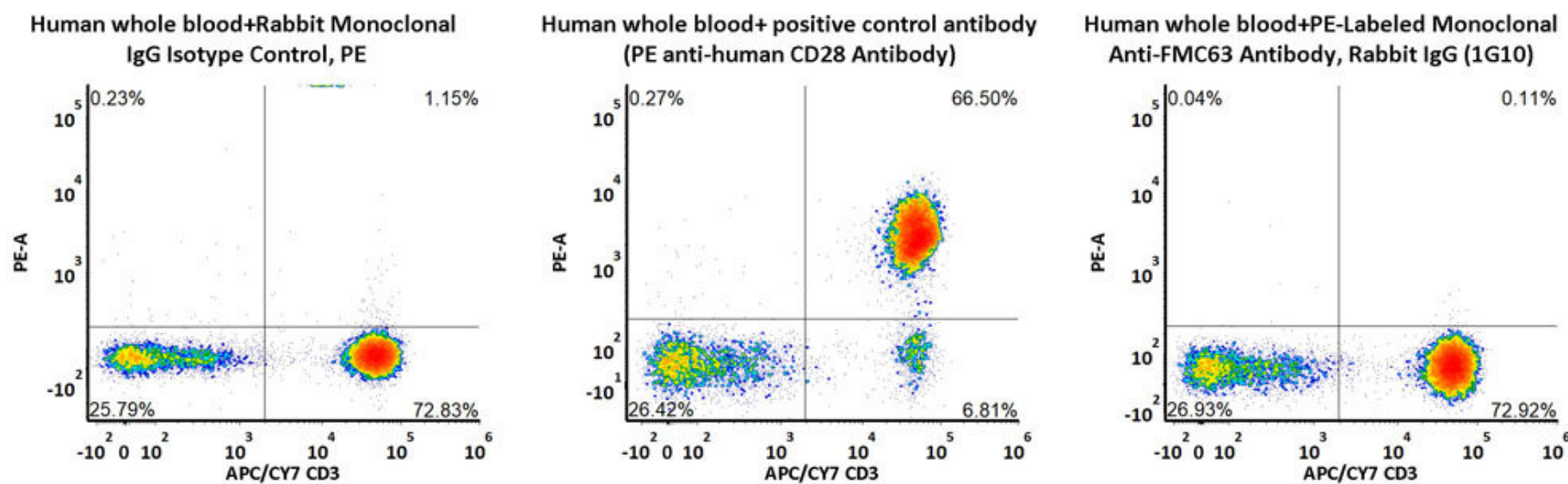


Flow cytometric analysis of Anti-CD19 CAR-293 cells staining with PE-Labeled Monoclonal Anti-FMC63 Antibody, Rabbit IgG1 (1G10) (Cat. No. FM3-PFM721) at 1:50 dilution (2  $\mu$ L of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100  $\mu$ L), compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

Non-specificity of PE-Labeled Monoclonal Anti-FMC63 Antibody, Rabbit IgG1 (1G10) (Cat. No. FM3-PFM721) binding to CD3+ cells present in human PBMC. Human PBMCs were simultaneously stained with FITC-labeled anti-CD3 antibody and PE-Labeled Monoclonal Anti-FMC63 Antibody, Rabbit IgG1 (1G10) (2  $\mu$ L of the antibody stock solution corresponds to labeling of 5e5 cells in a final volume of 100  $\mu$ 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 (QC tested).

### Evaluation of CAR expression

FACS Analysis of Non-specific binding to Human whole blood



Non-specificity of PE-Labeled Monoclonal Anti-FMC63 Antibody, Rabbit IgG (1G10) (0.03% Proclin) (Cat. No. FM3-PFM721) binding to CD3+ cells present in human whole blood. 100  $\mu$ l of human whole blood were simultaneously stained with APC/Cyanine7 anti-human CD3 Antibody and PE-Labeled Monoclonal Anti-FMC63 Antibody, Rabbit IgG (1G10) (2  $\mu$ L of the antibody stock solution in a final volume of 100  $\mu$ L), compared with isotype control antibody and positive control antibody. Both APC/Cyanine7 and PE positive signals was used to evaluate the non-specific binding activity to human CD3+ cells.

### 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

Discounts, Gifts,  
and more!

