

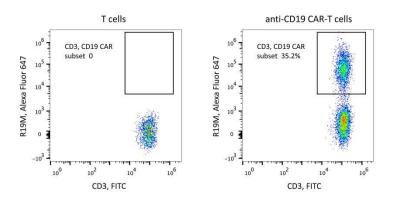
Technical Data Sheet

Rabbit Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647

Product Information		
Product No.	200101	
Size	25 Tests	
Recommended Vol. per Test	1 μL	
Antibody Types	Monoclonal	
Antibody Format	Whole IgG	
Clone	R19M	
Immunogen	scFv region of a CD19-specific mouse mAb clone FMC63	
Conjugate	Alexa Fluor 647	
Excitation/Emission Max	651/667nm	
Host Species	Rabbit	
Reactivity	Mouse	
Storage Buffer	Aqueous buffered solution containing protein stabilizer and ≤0.05% ProClin 300	
Storage conditions	2-8°C, store in dark	

Description

The rabbit monoclonal antibody R19M specifically binds to the scFv region of a CD19-specific mouse monoclonal antibody (mAb, clone FMC63). CD19 antigen is a B-cell specific cell surface antigen, which is expressed in all B-cell lineage malignancies and normal B-cells. The scFv region of FMC63 has been used to develop CD19-specific chimeric antigen receptor (CAR) T cells utilized in clinical trials.



Flow cytometric analysis of anti-CD19 CAR expression on human T cells. Human T cells were transduced with lentivirus encoding anti-CD19 CAR and cultured for 7 days. 2×10^5 cells were stained for the expression of anti-CD19 CAR with Rabbit Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647 (Product No. 200101, right panel). Non-transduced T cells were used as a control for gating of CAR expression (left panel).

Preparation & Storage

- Store undiluted at 2-8°C.
- Avoid prolonged exposure to light.
- Avoid freeze/thaw cycle of the reagent.
- The monoclonal antibody was purified by Protein A.
- The antibody was conjugated with Alexa Fluor 647 under optimum conditions, and unincorporated dye was removed.

Application Notes

Application

Flow cytometry	Routinely Tested	
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Product name	Product No.
Anti-human CD45 Antibody	602139/602140
Anti-human CD14 Antibody	602241
Anti-human CD8 Antibody	602006
Anti-human CD3 Antibody	603938/604045
Anti-human CD4 Antibody	601940/604240
Rabbit IgG Isotype Control, Alexa Fluor 647	700302

FACS Protocol

BioSwan reagents can be used with or without an isotype control to assess the amount of nonspecific antibody binding. If you want to set a
control, the recommended reagent to use is the following: Rabbit IgG Isotype Control, Alexa Fluor 647 (Product No. 700302).

(Optional) For Whole Blood Sample

- 1. Pipette 1 µL Rabbit Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647 into the bottom of the tube.
- 2. Add dead cell staining solution and additional fluorochrome conjugated antibodies into the bottom of the tube.
- 3. Pipette 100 µL of well-mixed, anticoagulated whole blood into the bottom of the tube. Mix gently and thoroughly.
 - Note Avoid smearing sample down the side of the tube. If the sample remains on the side of the tube, it will not be stained with the reagents.
- 4. Incubate for 25 minutes in the dark at room temperature (18-25°C).
- 5. Pipette Red Blood Cell Lysis Solution to the tube. Mix gently and thoroughly. Incubate for 15 minutes in the dark at room temperature (18-25°C).
- Add 500 μL FACS buffer to the tube. Mix well and centrifuge at 300g for 5 minutes at room temperature (18-25°C). Aspirate supernatant completely.
- 7. Repeat step 6 twice.
- 8. Add a suitable amount of FACS buffer to resuspend cell and analysis by flow cytometry.

(Optional) For Cell Sample

- 1. Harvest the cells and wash the cells twice by FACS buffer.
- 2. Count the cells number and the viability.
- 3. Resuspend the cell suspension to a concentration up to 1×10^6 nucleated cells per 100 μ L of buffer.
- Add 1 μL Rabbit Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647, dead cell staining solution and additional fluorochrome. Mix gently and thoroughly.
- 5. Incubate for 25 minutes in the dark at room temperature (18-25°C).
- 6. Add 500 μL FACS buffer to the tube. Mix well and centrifuge at 300 g for 5 minutes at room temperature (18-25°C). Aspirate supernatant completely.
- 7. Repeat step 6 twice.
- 8. Add a suitable amount of FACS buffer to resuspend cell and analysis by flow cytometry.

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Caution: Antibody solutions containing ProClin 300 should be handled with care. Do not take internally and avoid all contact with the skin, mucosa and eyes.

Intellectual Product Notices

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Application References

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