

## Technical Data Sheet

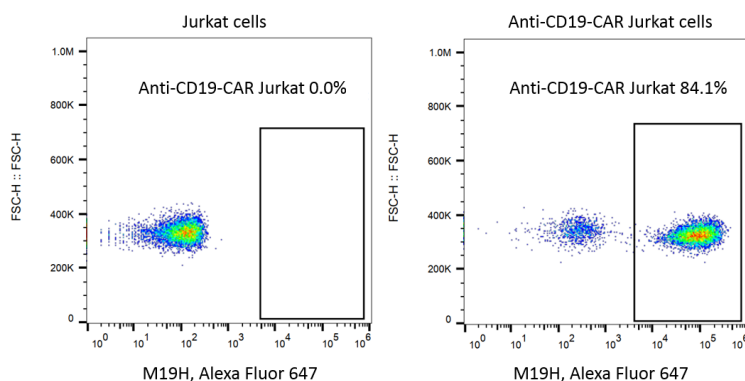
### Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647

#### Product Information

Material Number:	300402
Size:	100 Tests
Vol. per Test:	1 $\mu$ L
Clone:	M19H
Antibody types	Monoclonal
Host species	Mouse
Immunogen:	scFv region of a CD19-specific mouse mAb clone FMC63
Reactivity:	Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.03\%$ sodium azide.

#### Description

The mouse monoclonal antibody M19H 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 cell line Jurkat cells. Jurkat cells were lentivirally transduced with anti-CD19 CAR and cultured.  $2 \times 10^5$  cells were stained for the expression of anti-CD19 CAR with Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647 (Cat. No. 300402, right panel). Non-transduced Jurkat cells were used as a control for gating of CAR expression (left panel).*

#### Preparation and Storage

Shipped at 2-8 °C. Store undiluted at 2-8 °C and protected from prolonged exposure to light. Avoid freeze/thaw cycle. The monoclonal antibody was purified by Protein A. The antibody was conjugated with Alexa Fluor 647 under optimum conditions.

#### Application Notes

Application

Flow cytometry

Routinely Tested

#### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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**FACS Protocol**

1. Harvest the cells and wash the cells once by FACS buffer (PBS containing 2% of BSA).
2. Count the cells number and the viability, aliquot up to  $2 \times 10^5$  live cells into each tube. (Note: the cell viability must be  $\geq 95\%$ .)
3. Resuspend cells in 100  $\mu\text{L}$  of diluted Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, Alexa Fluor 647 (Cat. No. 300402, 1:100 diluted in FACS buffer) for 30 min at  $4^\circ\text{C}$ .
4. Wash the cells 3 times by FACS buffer and resuspend the cells in 200  $\mu\text{L}$  PBS per sample.
5. Transfer the cells into flow tube and analyze on Flow Cytometer. Acquisition of  $>10,000$  events is performed.