

## Technical Data Sheet

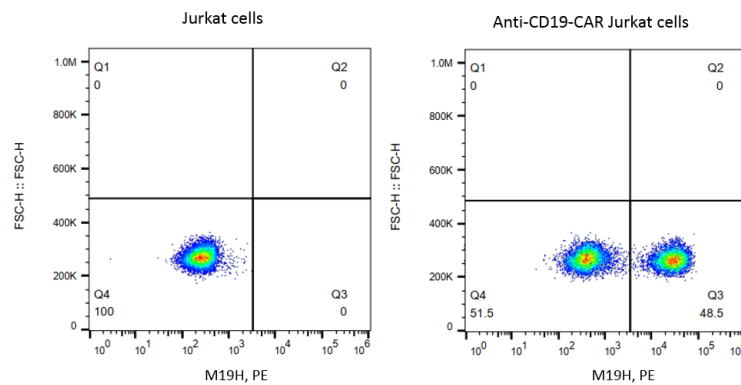
### Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, Biotin

#### Product Information

Material Number:	300416
Size:	1000 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 T 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, Biotin antibody (Cat. No. 300416, right panel). Secondary staining was carried out with Streptavidin PE (Cat. No. SAPE-100). Non-transduced Jurkat cells were used as a control for gating of CAR expression (left panel). Acquisition of  $>10,000$  events was performed.

#### Preparation and Storage

Shipped and store at 4°C. Avoid freeze/thaw cycle.  
The antibody was purified by Protein A.  
The antibody was conjugated with biotin under optimum conditions.

#### Application Notes

Application

Flow cytometry

Routinely Tested

#### Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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.

#### FACS Protocol

- Harvest the cells and wash the cells once by FACS buffer (PBS containing 2% of BSA).
- 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  $\geq 95\%$ .)
- Wash the cells once by FACS buffer.
- Resuspend cells in 100  $\mu$ L of diluted Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, Biotin antibody (Cat. No. 300416, 1:100 diluted in FACS buffer) for 30 min at 4°C.

5. Wash the cells twice by FACS buffer.
6. Resuspend cells in 100  $\mu$ L of diluted Streptavidin PE (Cat. No. SAPE-100, 1:200 diluted in FACS buffer.) for 30 min at 4°C.
7. Wash the cells 3 times by FACS buffer and resuspend the cells in 200  $\mu$ L PBS per sample.
8. Transfer the cells into flow tube and analyze on Flow Cytometer. Acquisition of >10, 000 events is performed.