Technical Data Sheet

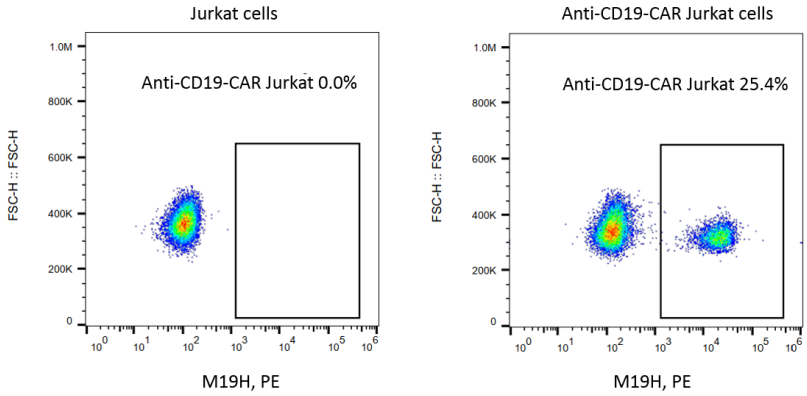
Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, PE

Product Information

Material Number:	300405
Size:	25 Tests
Vol. per Test:	1 μL
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 ≤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. 2×10^5 cells were stained for the expression of anti-CD19 CAR with Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, PE (Cat. No. 300405, 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.
The monoclonal antibody was purified by Protein A.
The antibody was conjugated with PE 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.

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 2×10^5 live cells into each tube. (Note: the cell viability must be ≥ 95%.)

3. Resuspend cells in 100 μL of diluted Mouse Anti-Mouse FMC63 scFv Monoclonal Antibody, PE (Cat. No. 300405, 1:100 diluted in FACS buffer) for 30 min at 4°C.
4. Wash the cells 3 times by FACS buffer and resuspend the cells in 200 μL PBS per sample.
5. Transfer the cells into flow tube and analyze on Flow Cytometer. Acquisition of >10, 000 events is performed.