ProMab Biotechnologies, Inc.

Protocol

Flow Cytometry and FACS Analysis - Cell Staining

OVERVIEW

Flow Cytometry and Fluorescence Activated Cell Sorting (FACS) allows cells of interest to be stained by fluorescently conjugated primary antibodies and subsequently sorted by laser excitation, charge and microfluidics using a Flow Cytometer or FACS Analyzer. The FACS Analyser allows the collection of target cells whereas Flow Cytometry does not. Cells can be stained and sorted by traditional methods or by following the instructions below.

FACS PROCEDURE

1. Per $5x10^5$ cells, resuspend cell pellet in 80uL staining buffer.
2. Add 20uL of a fluorescence-conjugated primary antibody against a biomarker of interest to 10^6 cells.
3. Incubate in dark for 20 minutes at 2 - 8° C.
4. Dilute cell suspension in 1.5mL of cold staining buffer and centrifuge at 4°C at 300 x g for 5 minutes.
5. Remove supernatant and resuspend pellet in 1.5mL cold staining buffer and centrifuge at 4°C at 300 x g for 5 minutes.
6. Remove supernatant and resuspend pellet to a final volume of 500 µL in staining buffer for Flow Cytometry or FACS analysis.

Additional Products and Services:

- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Rabbit Monoclonal Antibody
- Human Monoclonal Antibody
- Polyclonal Antibody
- Antibody Sequencing
- Hybridoma Sequencing
- CAR T-cells
- Lentivirus production
- Cancer Stem Cells
- Specialty Cell Culture Media
- T-cell Expansion beads

Ask about our full line of CRO services to provide supplemental assistance or the entire support necessary to complete your project on time and with the data you need to move forward.