Flow Cytometry Experiment Planner

Use our helpful, customizable Experiment Planner as an aid in the design of your flow cytometry experiments, taking you step by step through all the aspects you need to consider for successful results. Simply fill in the information about your experiment setup in the spaces provided to help you keep track of the details and allow smoother execution of your flow cytometry analysis.

Experiment name: ______________________________

Date: ______________________________

Basic Details

Hypothesis: ______________________________

What will be measured by flow cytometry? ______________________________

Sample type: ______________________________

Target species: ______________________________

Number of samples to be tested: ______________________________

Total number of cells or volume of blood required: ______________________________

Staining format (for example, FACS tubes or 96-well plate): ______________________________

Targets

Target *For example, CD3*	**Target Location** *For example, Surface*

Target *For example, CD3*	**Target Location** *For example, Surface*

Reagents (fill in all that apply)

Staining buffer:

Fc blocking reagent:

Fixation buffer:

Cell stimulation reagent:

Permeabilization buffer:

Compensation beads:

Other reagents:

Antibody Selection (fill in all that apply)

Larger table in appendix in case required.

Antigen Target	Antigen Density	Fluorophore	Relative Brightness	Excitation/ Emission Wavelength	Laser/Filter	Ab Catalog #	Ab Dilution*

* Determined after antibody titration.

Secondary antibody:

Fluorescently labeled streptavidin:

Conjugation kit:

Cellular Properties (fill in all that apply)

Cell viability:

Cell proliferation:

Apoptosis:

Autophagy:

Controls (fill in all that apply)

Unstained control: ____________________

Positive control: ____________________

Negative control: ____________________

Secondary only control: ____________________

Isotype control: ____________________

Compensation controls on cells: ____________________

Compensation controls on beads: ____________________

Fluorescence minus one: ____________________

Flow cytometer information

Flow cytometer: ____________________

Lasers: ____________________

Band pass/long pass filters: ____________________

Speed of acquisition: ____________________

Number of cells to acquire: ____________________

See appendix for

- Plate layout
- Expanded antibody selection table

Visit bio-rad-antibodies.com/flow-cytometry for further advice on flow cytometry.

Appendix

96-Well Plate Layout

	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C												
D												
E												
F												
G												
H												

Expanded Antibody Selection (fill in all that apply)

Antigen Target	Antigen Density	Fluorophore	Relative Brightness	Excitation/ Emission Wavelength	Laser/Filter	Ab Catalog #	Ab Dilution*

* Determined after antibody titration.

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