



Quick Reference Card

Muse™ Human Lymphocyte CD69 Kit MIM100104

For use in laboratory research studies to determine the CD69(+) lymphocyte count, total lymphocyte count, and CD69 percent of total lymphocytes in human whole blood and PBMC samples

CAUTION: This kit should not be used for patient diagnosis or patient management.
For Research Use Only; not for use in diagnostic procedures.

Storage Conditions

Store the Muse™ Human Lymphocyte Cocktail, Muse™ Human CD69-PE Antibody, Isotype Control Mouse IgG1-PE, and 1X Assay Buffer BA at 2 to 8°C, protected from light. Store the Human 1X Lysing Solution at room temperature.

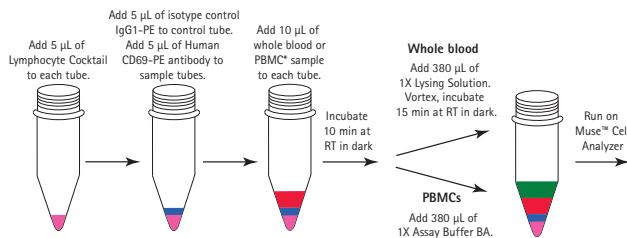
Kit Components

- Muse™ Human Lymphocyte Cocktail (Part No. 4700-1650, 100 tests/vial)
- Muse™ Human CD69-PE Antibody (Part No. 4700-1655, 100 tests/vial)
- Isotype Control Mouse IgG1-PE (Part No. 4700-1390 tests/vial)
- Human 1X Lysing Solution (Part No. 4700-1620, 100 tests/vial)
- 1X Assay Buffer BA (Part No. 4700-1360, 100 tests/vial)

Materials Recommended

- Muse™ Cell Analyzer
- Whole blood or PBMC samples
- Micropipettors
- Disposable micropipettor tips
- Microcentrifuge tubes with screw caps, 1.5 mL (VWR Catalog No. 16466-030, or equivalent)
- Vortex mixer

Assay Protocol



* PBMC samples should be in 1X Assay Buffer BA at a concentration of 4×10^5 to 2×10^7 cells/mL.

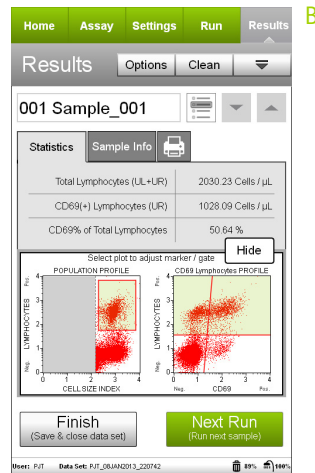
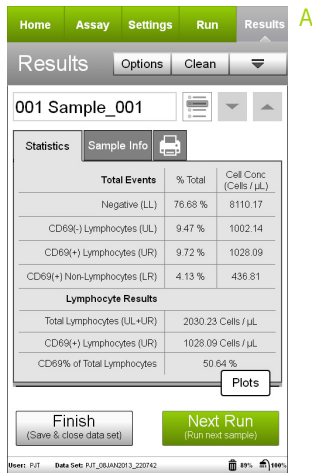
NOTE: A detailed kit user's guide can be found at www.millipore.com/muse.

Expected Results

The Muse™ Human Lymphocyte CD69 Assay provides results for CD69(+) lymphocytes, CD69 percent of total lymphocytes, and total lymphocyte count.

Results for each of the four quadrants are as follows:

- Upper-left quadrant: CD69(-) lymphocytes [lymphocyte(+) and CD69(-)]
- Upper-right quadrant: CD69(+) lymphocytes [lymphocyte(+) and CD69(+)]
- Lower-left quadrant: negative cells [lymphocyte(-) and CD69(-)]
- Lower-right quadrant: CD69(+) non-lymphocytes [lymphocyte(-) and CD69(+)]



Figures A and B. Example Data: Results obtained with the Muse™ Human Lymphocyte CD69 module for adult whole blood stained with the Muse™ Human Lymphocyte CD69 Kit and acquired on the Muse™ Cell Analyzer. Figure A shows results without dot plots, while Figure B shows results with optional dot plots. The statistics show cells/ μ L in the original sample, population percentages, as well as total lymphocyte count and CD69 cell percentage of lymphocytes. The first plot in Figure B shows Cell Size vs Lymphocytes and the second plot shows CD69 staining vs Lymphocytes.

The latest version of Muse™ software, which includes all assay modules, as well as the kit user's guide, can be found at www.millipore.com/muse.

Related Products

For Research Use Only; not for use in diagnostic procedures.

- Muse™ Human CD4 T Cell Kit – MIM100101
- Muse™ Human CD8 T Cell Kit – MIM100102
- Muse™ Human B Cell Kit – MIM100103
- Muse™ Human Lymphocyte CD25 Kit – MIM100105
- Muse™ System Check Kit – MCH100101
- Muse™ Count & Viability Kit (100T) – MCH100102
- Muse™ Annexin V & Dead Cell Kit – MCH100105

