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Quick Reference Card

Muse® Human CD4 T Cell Kit MIM100101

For use in laboratory research studies to determine the CD4 T cell count, total lymphocyte count, and CD4 cell percent of 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 CD4 T Cell Cocktail and 1X Assay Buffer BA at 2 to 8°C, protected from light. Store the Human 1X Lysing Solution at room temperature.

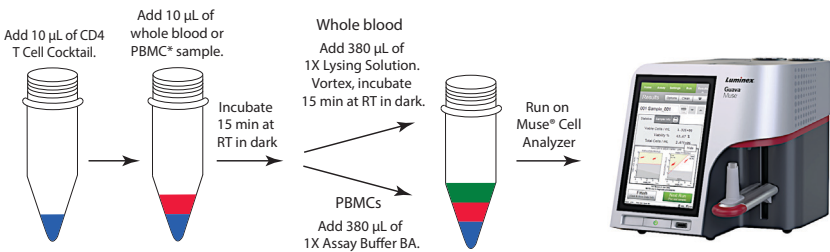
Kit Components

- Muse® Human CD4 T Cell Cocktail (Part No. 4700-1615, 100 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

- Guava® 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 4×10^6 to 2×10^7 cells/mL.

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

Expected Results

The Muse® Human CD4 T Cell Assay provides results for CD4 T lymphocyte count, CD4 percent of total lymphocytes, and total lymphocyte count.

Results for each of the four quadrants are as follows:

- Upper-left quadrant: non-CD4 lymphocytes [lymphocyte(+) and CD4(-)]
- Upper-right quadrant: CD4 T lymphocytes [lymphocyte(+) and CD4(+)]
- Lower-left quadrant: negative cells [lymphocyte(-) and CD4(-)]
- Lower-right quadrant: CD4 non-lymphocytes [lymphocyte(-) and CD4(+)]

Figures A and B: Example Data: Results obtained with the Muse Human CD4 T Cell module for adult whole blood stained with the Muse Human CD4 T Cell Kit and acquired on the Guava® Muse Cell Analyzer. Figure A shows results without dot plots, while Figure B shows results with optional dot plots. The statistics show cells/ μL in the original sample, population percentages, as well as total lymphocyte count and CD4 T cell percentage of lymphocytes. The first plot in Figure B shows Cell Size vs. Lymphocytes and the second plot shows CD4 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.luminexcorp.com/flowkits.

Related Products

For Research Use Only. Not for use in diagnostic procedures.

Muse® Human CD8 T Cell Kit - MIM100102

Muse® Human B Cell Kit - MIM100103

Muse® Human Lymphocyte CD69 Kit - MIM100104

Muse® Human Lymphocyte CD25 Kit - MIM100105

Muse® System Check Kit - MCH100101

Muse® Count & Viability Kit (40mL) - MCH100102

Muse® Annexin V & Dead Cell Kit - MCH100105

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