



Human Monocyte-Derived Dendritic Cells Specification Sheet

Lifeline’s Human Monocyte-Derived Dendritic Cells provide an ideal culture model for the study of the initiation of immune responses, delivery of antigens to dendritic cells, cytokine production, vaccines and Toll-like receptors (TLRs).

Lifeline’s Dendritic Cells are derived from monocytes that have been cultured with IL-4 and GM-CSF. Our Dendritic Cells are quality tested via flow cytometry to ensure proper expression of dendritic markers. Dendritic cells express CD11c and HLA-DR. The expression of CD3 (T cells), CD19 (B cells), and CD14 (monocytes/macrophages) are used to ensure depletion of these cell types. CD80, a maturation marker, is also measured for informational purposes.

CELL FEATURES:	
•	Dendritic Cells are derived from monocytes cultured with interleukin 4 and granulocyte-monocyte colony stimulating factor.
•	Dendritic Cells are extensively tested for quality and optimal performance.
•	Lifeline guarantees performance and quality.

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.

HUMAN MONOCYTE-DERIVED DENDRITIC CELLS ARE TESTED FOR:	
• Cell Count	≥1 × 10 ⁶ cryopreserved cells per vial
• Cell Viability	Minimum 80% viability when thawed from cryopreservation
• Sterility Testing	Negative for mycoplasma Negative for bacterial and fungal growth
• Virus Testing	Donor tests negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	≥ 80% Positive for CD11c Report % Positive for HLA-DR, CD3, CD14, CD19, and CD80

To place an order, please visit lifelinecelltech.com or call technical and customer service at 877.845.7787.

Lifeline Cell Technology • 8425 Progress Drive, Suite Z • Frederick, MD 21701

The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. All donated tissues have been obtained under proper informed consent. If Lifeline's products do not meet our posted performance and quality standards, we will replace them at no charge or provide a full refund. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

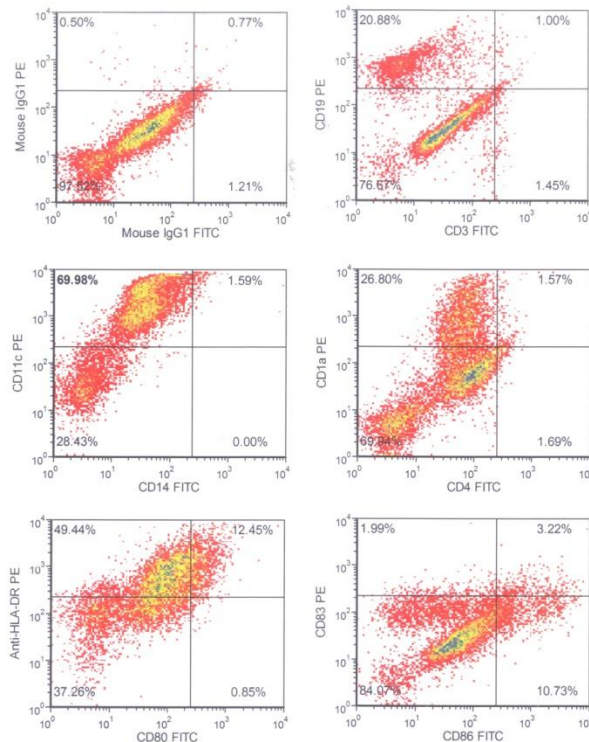
Safety Statement

This product is For Research Use Only. This product is not approved for human or veterinary use, or for use in *in vitro* diagnostic or clinical procedures.

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any nitrogen from cryopreserved vials in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

PRODUCT INFORMATION:

Part #	Description
HC-0003	Human Monocyte-Derived Dendritic Cells, Primary – $\geq 1 \times 10^6$ cells per vial



Left: An example of flow cytometry dot plots showing the distribution of surface markers on Human Monocyte-Derived Dendritic Cells.

Call Lifeline Technical Service and Sales at 877.845.7787
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