

PRODUCT SPOTLIGHT

PERIPHERAL BLOOD MONONUCLEAR CELLS

Why Do Drug Developers, Vaccine Manufacturers, and Cell Therapy Teams Choose ATCC Peripheral Blood Mononuclear Cells (PBMCs)?

✓ Predictive, High-Fidelity Models

ATCC PBMCs provide a physiologically relevant mix of immune cells—ideal for modeling immune responses, screening immunomodulatory compounds, and evaluating off-target effects in preclinical studies.

✓ Consistency for Regulatory Confidence

Sourced from IRB-consented donors and rigorously characterized, our PBMCs support reproducibility and traceability—key for IND-enabling studies and regulatory submissions.

✓ Ready for Complex Assays

Whether you're running cytotoxicity assays, cytokine profiling, or co-culture systems with engineered T cells or CAR constructs, our PBMCs deliver the viability and functionality you need.

✓ Scalable for Any Workflow

Available in 25 million cells/vial, cryopreserved for long-term use, and compatible with high-throughput platforms and GMP-adjacent environments.

Key Features for Advanced Therapeutics

- **Heterogeneous Cell Composition:** Includes T cells, B cells, NK cells, and monocytes—ideal for immunogenicity and mechanism-of-action studies.
- **Post-Thaw Viability:** Maintains high recovery and function after thawing, critical for time-sensitive workflows.
- **Assay-Ready:** Validated for use in ELISA, qPCR, flow cytometry, cytotoxicity, and mixed lymphocyte reactions (MLRs).
- **Donor Profiles:** Provided on CoA to match trial cohorts or target populations.
- **Ethically Sourced:** Fully traceable and compliant with ethical and legal standards.
- **Comprehensive testing:**


Serological for Syphilis
Unexpected red cell antibody
Hepatitis B core antibody (Anti-HBc EIA)
Hepatitis B surface antigen (HBsAg EIA)
Hepatitis C virus antibody (Anti-HCV EIA)


Human immunodeficiency virus antibody (HIV 1/2 plus O)
Human T-lymphotropic virus antibody (HTLV-I/II)
HIV-1/HCV/HBV nucleic acid
West Nile virus nucleic acid
Trypanosoma cruzi antibody (Chagas Disease)


Learn more at www.atcc.org/pbmc

ATCC® Number	Designation	Notes
<u>PCS-800-010™</u>	Primary Peripheral Blood CD14+ Monocytes, Normal, Human	Primary peripheral blood mononuclear cells isolated from normal blood tissue.
<u>PCS-800-011™</u>	Primary Peripheral Blood Mononuclear Cells (PBMC), Normal, Human	A heterogeneous population of blood cells with a single round nucleus and include macrophages, dendritic cells, monocytes, and lymphocytes.
<u>PCS-800-016™</u>	Primary CD4+ Helper T Cells	Oversee the action of the immune system; involved in activating and directing other immune cells. Crucial in (1) determining B cell antibody class switching, (2) the activation and growth of Cytotoxic T Cells, and (3) maximizing bactericidal activity of phagocytes (i.e., macrophages).
<u>PCS-800-017™</u>	Primary CD8+ Cytotoxic T Cells	Regulate and carry out the body's immune response by eliminating intracellular pathogens such as viruses, and some bacteria and parasites.
<u>PCS-800-018™</u>	Primary CD19+ B Cells	Responsible for the recognition and clearance of antigens in the system and, in the process, creating cells with the purpose of immunosurveillance.
<u>PCS-800-019™</u>	Primary CD56+ NK Cells	Major effectors of the innate immune system and are important in host defense, cancer, and autoimmunity.

Learn more at www.atcc.org/pbmc

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