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June 2016

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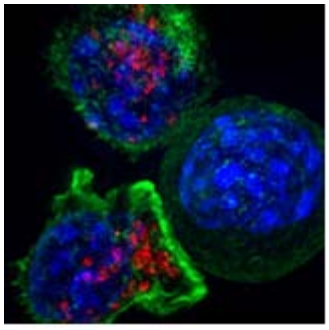
cellpassages



Primary Mononuclear Cells

Mononuclear cells are a heterogeneous population of cells comprising lymphocytes, monocytes, and dendritic cells. These functional components of the immune system have a broad array of applications in drug development, biomarker discovery, toxicology, autoimmunity studies, and cancer immunology research. ATCC offers primary mononuclear cells from peripheral blood (ATCC® PCS-800-011™) and bone marrow (ATCC® PCS-800-013™) that can be used immediately with your application-specific growth factors to provide reliable results for your experimental system. ATCC utilizes a wide range of unique donors, presenting immunologists the ability to design experiments with specific HLA type, blood type, disease states, ethnicity, age, and gender.

Browse ATCC® mononuclear cells.

CD34+ Hematopoietic Cells

CD34+ hematopoietic cells are multipotent; they can renew themselves and differentiate to a variety of specialized cells found in the blood. ATCC maintains bone marrow-derived (ATCC® PCS-800-012™) and cord blood-derived (ATCC® PCS-800-014™) CD34+ cells, which may be used to support physiologically relevant

Webinar - Functionally Characterized Human PBMCs: An Improved ***In Vitro*** Model of Human Immune Response

Presenter: Alexei Miagkov, Ph.D.
Senior Scientist, ATCC

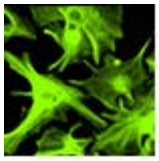
Abstract: In this webinar, Dr. Miagkov will examine the critical role that human blood mononuclear cells (PBMCs) play in

research in regenerative medicine, transplant studies, stem cell biology, hematology, and oncology.

Order CD34+ hematopoietic cells, or locate related immunological resources.

modern biomedical research. He will then discuss the issue of phenotypic variability and how it affects the functional activity of these cells. Dr. Miagkov will close by presenting pre-screening characterization as a solution to address the variability between PBMC preparations.

June 30, 2016, 10:00 AM or 3:00 PM ET
Register for a session today!



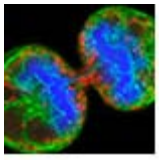
Visit us at ISSCR

Going to ISSCR in San Francisco this year? Don't miss our poster session:

Comprehensive Gene Expression Analysis of Human iPSC-derived Neural Progenitor Cells and Neurons
Leelamma Panicker, Ph.D., *Scientist*, ATCC
Poster Session III
Friday, June 24, 2016, 6:00 to 7:00 PM

Learn how ATCC neural progenitor cells can be differentiated into dopaminergic neurons and then used for neurotoxicity and drug screening applications.

We can't wait to see you there!



Uveal Melanoma Cell Lines from The Institut Curie

Uveal melanoma (UM) is the most common primary tumor of the eye in adults. ATCC is proud to announce the availability of a panel of uveal melanoma cell lines from the Institut Curie, that were sponsored by the Rare Cancer Research Foundation (RCRF). This panel recapitulates the molecular scope of the disease in terms of genetic alterations and mutations.

Uveal Melanoma Cell Lines Panel

ATCC® No.	Product Name	BAP1 mutations	BAP1 protein expression	GNAQ mutations	GNA11 mutations
CRL-3296™	MP38	c.68-9 72del	No	c.626 a > T	-
CRL-					

3297™	MP41	-	Yes	-	c.626 a > A/T
CRL-3298™	MP46	-	No	c.626 a > T	-
CRL-3299™	MP65	c.1717del	No	-	c.626A > T
CRL-3295™ *Coming soon!*	MM28	c.1881C > A	No	-	c.626A > T

Amirouchene-Angelozzy N, *et al.* Establishment of novel cell lines recapitulating the genetic landscape of uveal melanoma and preclinical validation of mTOR as a therapeutic target. Mol Oncol 8: 1508-1520, 2014. PubMed: 24994677.

ATCC Puzzle

Try this month's crossword puzzle and test your knowledge of immunology! The solution will appear in next month's issue.

For the solution to last month's Renal Regulation puzzle click here.

Publications

- Animal Cell Culture Guide
- Differentiation and Expansion of hematopoietic precursor cells from bone marrow-derived CD34+ Progenitors
- *In Vitro* Differentiation of Macrophages and Dendritic Cells from Primary Human CD14+ Monocytes
- Hematopoietic Progenitor Cells – Model Systems to Study the Immune and Cardiovascular Systems
- Primary Human Immunology Cells

Frequently Asked Questions

Q: How are ATCC® PCS-800-011™, Human Peripheral Blood Mononuclear (PBMC) and ATCC® PCS-800-013™, Human Bone Marrow Mononuclear (PBMC) cells obtained?

A: ATCC mononuclear cells are collected from either peripheral blood or bone marrow and isolated using density gradient centrifugation methods.

Have more questions?

Cell Biology Collections

Cell Line Authentication

Facebook

Cell Biology Resources

Cell Culture Conversation

ATCC - 10801 University Boulevard, Manassas, VA 20110