ATCC®

July 2016

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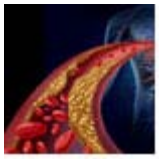
Are you Angio-***Ready***™?

Angiogenesis is a multi-step physiological process that is appropriated by cancer cells to contribute to rapid tumor growth and metastasis. To support the need for angiogenesis screening in cancer, cardiovascular disease, diabetes, and other pathologies, ATCC has created the Angio-***Ready***™ kit (available in 2 assay and 10 assay sizes; ATCC® Nos. ACS-2001-2™ and ACS-2001-10™). This convenient, pre-configured, single-use kit comprises the ideal ratio of GFP-expressing hTERT-immortalized human aortic endothelial cells (teloHAEC-GFP) pre-mixed with hTERT-immortalized mesenchymal stem cells (ASC52telo), and is supplied with a complete angiogenesis medium (ATCC® ACS-2008™) for minimal cell culturing and maximum run-to-run consistency. Unlike other angiogenesis kits, Angio-***Ready*** does not require antibodies, and is dyeless, matrixless, scalable and easy to perform. This mix contains endothelial cells that stably express GFP, so quick scanning and live imaging of the capillary-like tubules after three to seven days is possible.

The Angio-***Ready*** kit is assay-ready for use in a 96 well plate – simply thaw, plate, and assay! Get screening with Angio-***Ready***.



hTERT-immortalized Cell Lines

hTERT-immortalized cell lines combine the *in vivo* nature of primary cells with the traditional cell line's ability to survive continuously. ATCC offers a selection of hTERT-immortalized cells for angiogenesis research. For example, TeloHAEC and TIME cells express endothelial surface proteins and undergo vascular tubule formation. In addition, ASC52telo supports vascular structure growth and differentiate into smooth muscle tissue. Importantly, hTERT-immortalized cells retain these physiological characteristics at

high passage.

Explore hTERT-immortalized Cells.

Webinar: Neural Progenitor Cells – Models of Toxicology for the 21st Century

Presenter: Brian A. Shapiro, Ph.D.
Technical Writer, ATCC
July 28, 2016, 12:00 PM ET

In this webinar, Dr. Shapiro will discuss the expression of genes associated with the differentiation of NPCs during three weeks in dopaminergic differentiation media. He will then demonstrate that ATCC NPCs and dopaminergic differentiation media are suitable for drug screening in neurotoxicity screenings in NPC-derived neurons by using a viability assay and high-content imaging analysis.

Register for this webinar today.

Webinar: Get ***Ready*** for a Better Angiogenesis Model

Presenter: Kevin Grady, B.S.
Product Line Business Manager, ATCC
August 4, 2016, 12:00 PM ET

Abstract: In this webinar, Mr. Grady will introduce the Angio-***Ready***™ Angiogenesis Assay System, an *in vitro* co-culture system for measuring angiogenesis. This model of angiogenesis forms functional tubular structures and responds appropriately in a dose dependent manner to known agonists and inhibitors of angiogenesis. Thus, Angio-***Ready***™ is a ready-to-use, time-saving, high-throughput model for screening drugs or biomolecules for their effect on angiogenesis.

Register for this session.

Angiogenesis Resources

To support angiogenesis research, ATCC offers: an assay-ready, high-throughput angiogenesis kit; hTERT-immortalized endothelial cells and mesenchymal stem cells; cell matrix gels to support angiogenic tubule formation; as well as primary vascular endothelial and smooth muscle cells. These products support the formation of vascular structures *in vitro*, which may be employed in toxicological screening assays, drug development studies, or disease pathogenesis experiments.

Learn more about ATCC angiogenesis research tools!

ATCC Puzzle

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

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

Publications

- Animal Cell Culture Guide
- *In vitro* Angiogenesis Assay Using the ATCC® Angio-Ready™ System
- Primary Cardiovascular Cells

Frequently Asked Questions

Q: Do the immortalized TeloHAEC cells (ATCC® Nos. CRL-4052™ and CRL-4054™) still retain the characteristics of endothelial cells?

A: TeloHAEC and TeloHAEC-GFP cells exhibit the important features of primary endothelial cells, such as CD31 expression, AcLDL uptake, inflammatory responses (CD54, CD62e, and CD106 surface protein upregulation) upon TNFα treatment, and increased cell proliferation by VEGF stimulation.

Have more questions?

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Cell Culture Conversation

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