ANGIOMICS® MICROVESSELS

A Genuine Vascularization Solution

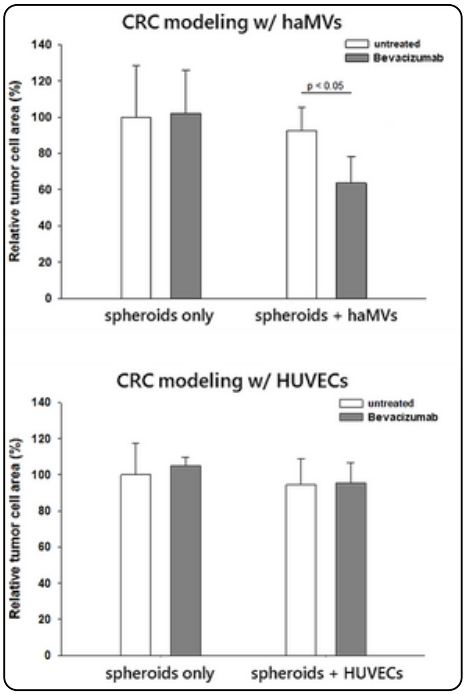
Better Biology by vascularizing your human-relevant models with ready to use, isolated human microvessels!

Our Angiomics® microvessels are cryopreserved fragments of intact human microvessels (haMVs) recapitulating native microvascular biology and boosting physiological relevance to any 3D model. Use haMVs in existing, validated protocols or develop your own to integrate native microvasculatures into your cell and tissue models thereby enhancing discovery and predictability. Qualified for consistent performance, our haMVs combine microvascular cell complexity in a single reagent, ready for immediate use. Realize better results by modeling better biology with haMV vascularization.

Angiomics® Human Microvessels

Different from just endothelial cells, Angiomics® haMVs are fragments of intact microvessels that are frozen in aliquots after a certified harvesting process and shipped in frozen cryovials. Our proprietary harvest process keeps intact the structure and cell composition of the native microvessel, including those cells residing in the perivascular niche.

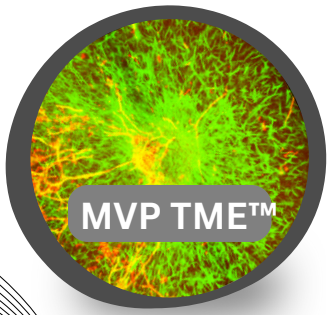
When added to a 3D tissue or organoid model, such as the human vascularized MVP LIVER™ tissue model, the Angiomics® haMVs contribute to the tissue-specific environment, adding relevant and important complexity for better biological outcomes. Advance your research with a native microcirculation with the haMV-based Vascularized In Vitro Perfusion Model (VIPM) microphysiological system. Backed by decades of peer-reviewed research and comprehensive support, leverage Angiomics® haMVs to model angiogenesis, model vascularized tumor microenvironments, vascularize organoids/microtissues, and model perfused microphysiological systems.



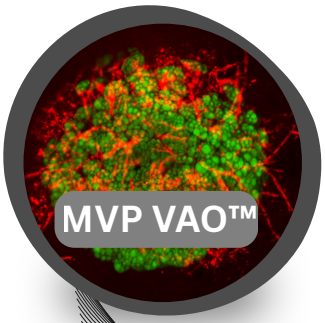
The presence of the Angiomics microvessels enabled more predictive treatment outcomes for in vitro cancer models.

Tissue Vascularization

Tumor Microenvironment



Vascularized Organoids



Microphysiological Systems

Vascularize with Confidence

Protocols for using haMVs are provided with each vial and scientific expertise is available to support your vascularization outcomes.

Accelerate your research

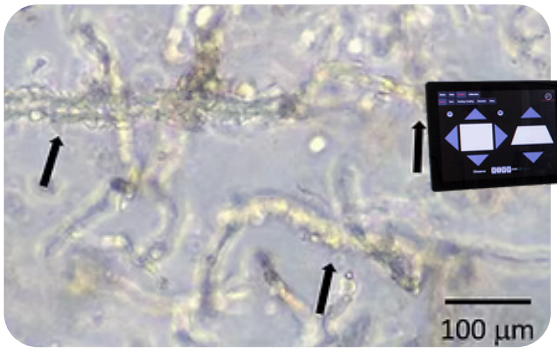
Combine with the BioAssemblyBot® and BioApps® Platforms to automate your vascularized tissue modeling and assaying in order to save time, reduce costs, and streamline your research.

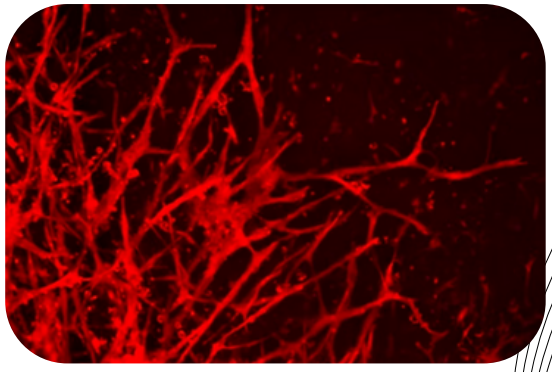
Ready for immediate use

Our haMVs are delivered frozen in standard vials containing different numbers of microvessels tailored for different applications. Thaw and use the microvessels however you would use cells to vascularize your models.

Key Features:

- Native Human Microvessels
- Preserved perivascular niche
- Recapitulates In Vivo Vascularization
- Phenotypically Plastic & Dynamic with the Tissue
- Environment
- Decades of Published Work
- Comprehensive Support





Angiomics haMVs are readily included in tissue fabrication strategies and 3D Biology workflows with the BioAssemblyBot (BAB.)

Preparation & Packaging:
Vials are frozen at the time of isolation and stored in liquid nitrogen

Growth Potential:
Each microvessel lot is qualified for positive neovessel growth activity

Microvessel Source:
Microvessels are isolated from donated human subcutaneous adipose for use in research by informed consent or legal authorization.

Available Sizes:
20K, 50K, or 100K microvessels per vial

Vascularize now with Angiomics® haMVs
Connect with an expert!

https://www.advancedsolutions.com/microvessels