

Product Description

Human Dermal Microvascular Endothelial Cells (HDMVEC) from blood vessels of skin, form the interface between intravascular and extravascular compartments in skins. Compared to endothelial cells elsewhere in the body, HDMVEC exhibit several skin specific characteristics. They actively participate in a variety of physiological processes including wound healing, control of hemostasis, temperature regulation, and modulation of inflammation/leukocyte trafficking ^[1]. Via proliferation, quiescence, apoptosis, and senescence, HDMVEC show remarkable phenotypic and functional heterogeneity, which in turn allows the cutaneous microvasculature to be in a dynamic balance between maintenance and remodeling ^[2,3].

iXCells Biotechnologies provides high quality HDMVEC, which are isolated from human skins and cryopreserved at P2, with >0.5 million cells in each vial. HDMVEC express vWF/Factor VIII and CD31 (Figure 1) and are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi. They can further expand in Endothelial Cell Growth Medium (Cat# MD-0010) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Human skin blood vessels
Package Size	0.5 million cells/vial
Passage Number	P2
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent

References

[1] Avril M, Tripathi AK, Brazier AJ, Andisi C, Janes JH, Soma VL, Sullivan DJ Jr, Bull PC, Stins MF, Smith JD. (2012) "A restricted subset of var genes mediates adherence of Plasmodium falciparum-infected erythrocytes to brain endothelial cells." Proc Natl Acad Sci USA. 109: E1782-90.

[2] Claessens A, Adams Y, Ghumra A, Lindergard G, Buchan CC, Andisi C, Bull PC, Mok S, Gupta AP, Wang CW, Turner L, Arman M, Raza A, Bozdech Z, Rowe JA. (2012) "A subset of group A-like var genes encodes the malaria parasite ligands for binding to human brain endothelial cells." Proc Natl Acad Sci USA. 109: E1772-81.

[3] Laranjeira MS, Fernandes MH, Monteiro FJ. (2012) "Reciprocal induction of human dermal microvascular endothelial cells and human mesenchymal stem cells: time-dependent profile in a co-culture system." Cell Prolif. 45: 320-34.

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