



Product Description

Fibroblasts are mesenchymal cells derived from the embryonic mesoderm. They have been extensively used for a wide range of cellular and molecular studies as they are one of the easiest types of cells to grow in culture. Their durability also makes them amenable to a variety of manipulations ranging from studies employing gene transfection to microinjection. There is evidence showing that fibroblasts in various organs are intrinsically different [1]. Specifically, human pulmonary artery adventitial fibroblasts (HPAAF) are important modulators of vascular wall function [2]. During pathological conditions, such as hypoxia-induced pulmonary hypertension, HPAAF become proliferative which contributes to adventitial thickening [3].

iXCells Biotechnologies provides high quality HPAAF, which are isolated from human pulmonary artery and cryopreserved at P1, with >0.5 million cells in each vial. HPAAF express fibronectin and are characterized by their spindle-shaped morphology. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 16 population doublings in Fibroblast Growth Medium (Cat# MD-0011) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Human pulmonary artery
Package Size	0.5 million cells/vial
Passage Number	P1
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Fibroblast Growth Medium (Cat# MD-0011)

References

- [1] Conrad, G. W., Hart, G. W., Chen, Y. (1977) Differences in vitro between fibroblast-like cells from cornea, heart, and skin of embryonic chicks. J. Cell Sci. 26:119-137.
- [2] Pendurthi, U. R., Rao, L. V. M., Williams, J. T. and Idell, S. (1999) Regulation of tissue factor pathway inhibitor expression in smooth muscle cells. Blood 94:579-586.
- [3] Das M, Dempsey EC, Reeves JT, Stenmark KR. (2002) Selective expansion of fibroblast subpopulations from pulmonary artery adventitia in response to hypoxia. Am J Physiol Lung Cell Mol Physiol 282(5):L976-86.

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