

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 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. In general, fibroblasts secrete a non-rigid extracellular matrix which is rich in type I and/or type III collagen [1]. There is evidence showing that fibroblasts in various organs are intrinsically different [2]. In the lymphoid compartment, fibroblasts construct a unique conduit system with intriguing size exclusion which plays a fundamental role in regulating immune response and homeostasis of tissue fluids [3].

iXCells Biotechnologies provides high quality Mouse Lymphatic Fibroblasts (MLF), which are isolated from mouse lymph node and cryopreserved at P0, with >0.5 million cells in each vial. MLF express fibronectin and are characterized by their spindle-shaped morphology. MLF are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 5 population doublings in Fibroblast Growth Medium (Cat# MD-0011) under the condition suggested by iXCells Biotechnologies.

Product Details

Tissue	Mouse lymph node (strain C57BL/6 or CD1)
Package Size	0.5 million cells/vial
Passage Number	P0
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Fibroblast Growth Medium (Cat# MD-0011)

References

- [1] Gabbiani G, Rungger-Brandle E. (1981) "The fibroblast." In Glynn LE, Handbook of Inflammation, Vol. 3: Tissue Repair and Regeneration (pp 1-50). Amsterdam: Elsevier.
- [2] Conrad GW, Hart GW, Chen Y. (1977) "Differences in vitro between fibroblast-like cells from cornea, heart, and skin of embryonic chicks." J Cell Sci. 26: 119-37.
- [3] Roozendaal R, Mebius RE, Kraal G. (2008) "The conduit system of the lymph node." Int Immunol. 20: 1483-7.

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