

## Product Description

Mesenchymal stem cells (MSC) are a well-characterized population of adult stem cells. MSC have the potential to develop into mature cells that produce fat, cartilage, bone, tendons, and muscle. These properties, in combination with their developmental plasticity, have generated tremendous interest because of the potential use of MSC in regenerative medicine. Fetal lung has been identified as a rich source of MSC and studies have shown that MSC can differentiate into neural cells, in addition to their mesenchymal differentiation potential (Med)[1]. MSC have also been shown to enhance the engraftment of human umbilical cord blood-derived CD34 hematopoietic cells in immunodeficient mice [2]. Flow cytometric analysis showed that fetal lung MSC express CD13, CD29, CD44, CD90, CD105, CD166, and HLA-ABC.

iXCells Biotechnologies provides high quality Human Pulmonary Mesenchymal Stem Cells (HPMSC), which are isolated from human lung tissue and cryopreserved at P1, with >0.5 million cells in each vial. HPMSC express CD73, CD90, and CD105. These HMPSC are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 12 population doublings in Mesenchymal Stem Cell Medium (Cat# MD-0037) under the condition suggested by iXCells Biotechnologies.

## Product Details

<b>Tissue</b>	Human lung tissue
<b>Package Size</b>	0.5 million cells/vial
<b>Passage Number</b>	P1
<b>Shipped</b>	Cryopreserved
<b>Storage</b>	Liquid nitrogen
<b>Growth Properties</b>	Adherent
<b>Media</b>	Mesenchymal Stem Cell Medium (Cat# MD-0037)

## References

- [1]. Fan CG, Tang FW, Zhang QJ, Lu SH, Liu HY, Zhao ZM, Liu B, Han ZB, Han ZC (2005) Characterization and neural differentiation of fetal lung mesenchymal stem cells. *Cell Transplant.* 14:311-321.
- [2]. Noort WA, Kruisselbrink AB, in 't Anker PS, et al. (2002) Mesenchymal stem cells promote engraftment of human umbilical cord blood-derived CD34(+) cells in NOD/SCID mice. *Exp. Hematol.* 30:870-878.

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