



## THE TECHNOLOGY

Current methods of culturing stem cells require the use of feeder cells, including mouse embryo fibroblasts (MEFs), which can be inefficient and require constant preparation from fresh embryos or must be obtained commercially. The JK1 cell line is derived from CD34<sup>+</sup> mouse testicular stromal (MTS) cells and facilitates long term adult spermatogonial stem and progenitor cells (SPCs) in culture. It also allows for faithful generation of SPCs and multipotent stem cells, all while maintaining key features of germline stem cells.

Inventors

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Licensee

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## THE PRODUCT

### JK1 Passage-Independent Feeder Cells

JK1 is capable of promoting long term culture of primitive cells, allowing for the identification of stromal derived factors that support long term proliferation of various types of stem cells. This line can be passaged serially without losing its capacity to support stem cell self renewal and survival, making it a convenient alternative to other types of feeder layers for various stem and progenitor cells. JK1 feeder cells are used for the maintenance of numerous types of stem cells in their undifferentiated state.