

ABSTRACT

The present invention aims to obtain a method for quality evaluation of human mesenchymal stem cells, a method for isolation, selection and culture of human mesenchymal stem cells, a cell population of rapidly proliferating human mesenchymal stem cells, as well as monoclonal antibodies that specifically recognize rapidly proliferating human mesenchymal stem cells.

From a cell population containing human mesenchymal stem cells, rapidly proliferating human mesenchymal stem cells are isolated, selected and cultured. The abundance ratio of cells expressing Ror2 or Fzd5 in the cell population thus isolated, selected and cultured is quantified to determine whether or not each cell population is acceptable.