

NGFR protein-coupled magnetic MicroBeads

Cat. No. NGFR-604M Lot. No. (See product label)

SPECIFICATION

Species Human

Capacity for 1×10^9 total cells

Background

CD271, also known as LNGFR (low-affinity nerve growth factor receptor) or p75NTR, belongs to the low-affinity neurotrophin receptor and the tumor necrosis factor receptor superfamily.

CD271 is a well-known marker on mesenchymal stem cells, also known as mesenchymal stromal cells (MSCs), from bone marrow aspirate or lipoaspirate. After separation colony-forming unit fibroblast (CFU-F) activity was found only in the CD271+ cell fraction, and not in the CD271- population. Isolated CD271+ cells have a higher proliferative capacity in comparison to MSCs isolated by plastic adherence. Secretion of growth factors was significantly higher in the separated CD271+ MSCs. CD271 (LNGFR) was initially described to be expressed on cells of the central and peripheral nervous system nervous system and was suggested to be involved in the development, survival, and differentiation of neural cells. CD271+ neural crest progenitor cells can be efficiently isolated with Neural Crest Stem Cell MicroBeads.

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