Novel markers for the identification and isolation of stem and progenitor cells (Ramot)

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Dafna Benayahu, T.A.U Tel Aviv University, Medicine-Sackler Faculty, Cell and Developmental Biology

Technology

A series of novel markers: (1) chromatin remodeling protein factor termed (CHD9/CReMM), (2) A cell adhesion protein termed (SVEP1), (3) A kinesin protein termed (MS-KIF18A), (4) RNA processing factor (SRRF/hNRNP-L) have been developed as novel markers for the identification and isolation of stem and progenitor cell.

Potential Applications

- Identification of stem cells from skeletal muscle, mesenchymal cells and adipose derived stem cells
- Isolation and enrichment of specific sub populations of stem cells and progenitors cells
- Modulation of expression for controlled differentiation of MSCs
- QC for cell differentiation

Stage of development

Antibodies have been raised to monitor protein expression in in vitro and in vivo studies

Patents

7,829,296; 7,919,602
US pending

Contact for more information:

Amichai Bar On ✉, VP BD LS,

Ramot at Tel Aviv University Ltd. P.O. Box 39296, Tel Aviv 61392 ISRAEL
Phone: +972-3-6406608
Fax: +972-3-6406675