

High Efficiency Gene Transfer into Stem Cells

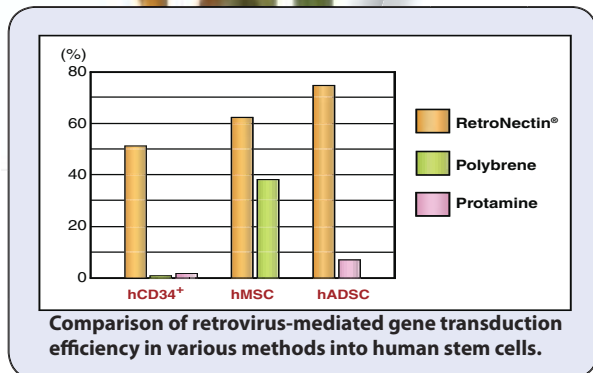
RetroNectin[®]

Recombinant Human Fibronectin Fragment

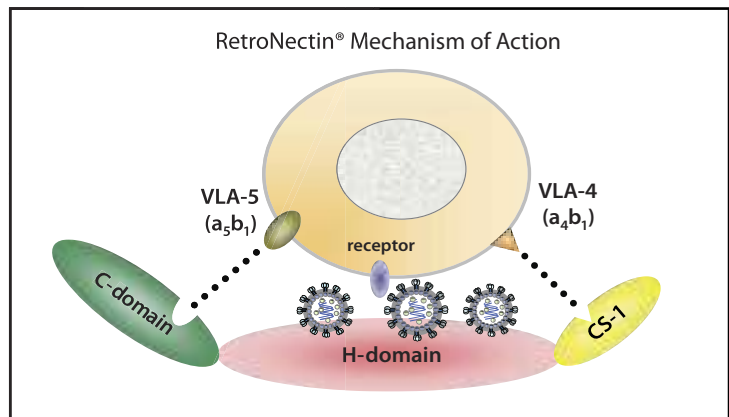
Use of RetroNectin[®]-based gene transduction protocols dramatically enhances the efficiency of retrovirus or lentivirus-mediated gene transfer into mammalian cells. RetroNectin[®] is a recombinant polypeptide consisting of three functional domains derived from the human fibronectin. RetroNectin[®]'s enhancement of gene transduction efficiency is hypothetically due to co-localization of retroviral particles and target cells on the RetroNectin[®] molecule. Recent experiments demonstrate RetroNectin[®]'s efficacy on stem cells.

- **Highly Efficient Retroviral or Lentiviral Gene Transfer** into Stem Cells*
- **No Polybrene Required** for Transduction
- **Facilitates development of innovative protocols** for proliferation of cells carrying a transferred gene, maintaining the function of the cells, and increasing transplant efficiency

* carrying VLA-4 and/or VLA-5 cell surface receptors



RetroNectin[®] enables and enhances retrovirus-mediated gene transfer into stem cells which express lower levels of GALV envelope receptor, such as hCD34⁺ or hADSC



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