Abstract

CELLS EXPRESSING TH1 CHARACTERISTICS AND CYTOLYTIC PROPERTIES

A novel cell type has been generated that has both Thl characteristics and cytolytic activity. These Thl/killer cells are CD4+ cells purified from peripheral blood and manipulated to have Thl characteristics such as production of IFN-gamma combined with cytolytic activity similar to cytotoxic T-cells (CTL). The CTL activity is targeted toward diseased cells, not normal cells. The cytolytic activity of the Thl/killer cells is mediated by Granzyme B-Perforin mechanism and results in apoptotic death of diseased cells. Methods of producing and using these Thl/killer cells include isolating CD4+ cells from peripheral blood, activating the CD4+ T- cells to form Thl/killer cells and administering these Thl/killer cells with the cytolytic activity to a patient wherein theThl/killer cells are allogeneic to the patient.

[Figure 1a and 1b]