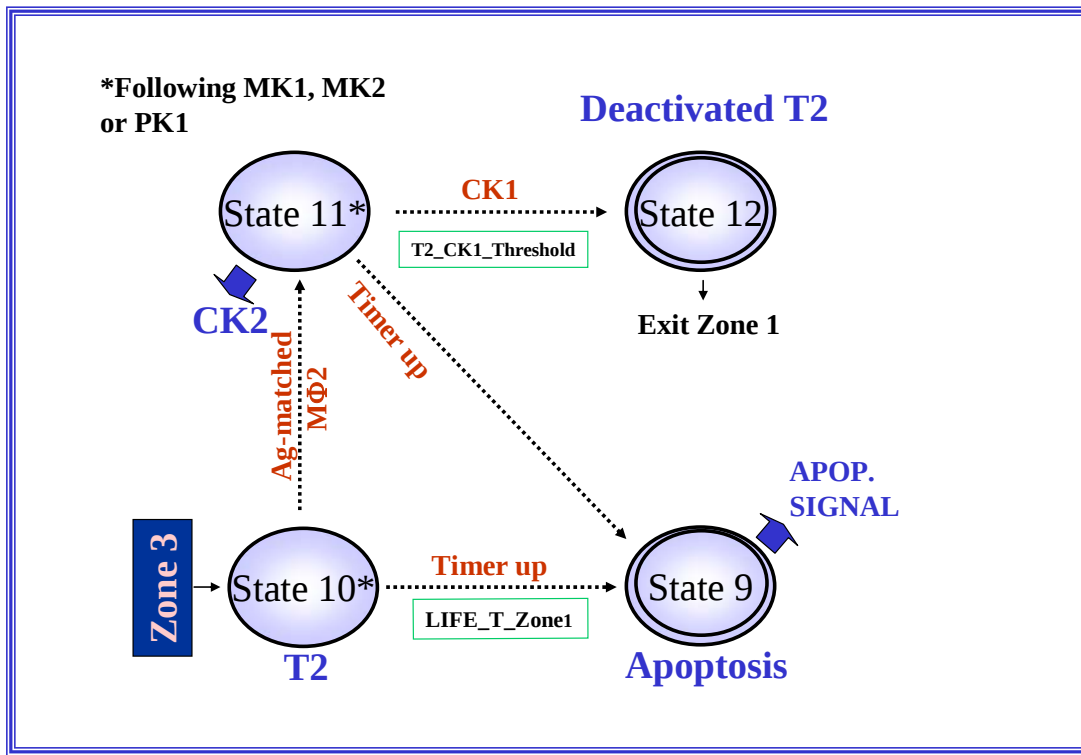




Additional file 12. State Diagram: T Cell agents (T2s) in Zone 1.

T2s enter Zone 1 and determine the levels of monokine-1 (MK1), MK2 and parenchymalkine-1 (PK1) in their immediate environment. They follow whichever signal is the greatest or move randomly. The T2s look for an antigen-matched Macrophage agent type 2 (MΦ2), and if they encounter one they produce cytokine-2 (CK2) [85]. If they sense a level of CK1 in their immediate environment that is above a threshold level they are deactivated and exit Zone 1 (T2_CK1_Threshold). Otherwise they remain in Zone 1 until they run out of time and undergo apoptosis (LIFE_T_ZONE1) [71].