

Supplementary Figure 4. Image-based analyses of co-cultures of cells from patient-derived 103 glioblastoma samples with mRNA-modified T cells A. Thresholding strategy for marker-based 104 classification of cells. Histograms and scatter plots of single-cell marker intensity distributions 105 for S100B & CD3 (green, 488), NESTIN (yellow, PE), CD45 (red, APC). Data represents the 106 entire set of cells imaged and analyzed. Single linear thresholds were set for each cellular marker 107 as indicated. B. Convolutional neural network (CNN) test dataset accuracy. Accuracy of the 108 original network (top) and the transfer-learned network on the manually curated test dataset of 109 T_{ACT} and T_{CON} cells (bottom). The transfer-learned network (TNet) was subsequently used in all 110 morphological analyses of T cells presented in this paper. C. Architecture of the original CNN 111 from. Layers, where weights and biases were reset prior to the retraining of the transfer network, 112 are highlighted in yellow. **D**. Patient tumors that were used for the image-based platform were 113 stained for CD3⁺ T cells and the NKG2D ligands MICA and ULBP2. Staining intensity for each 114 115 tumor is shown.