

Additional file 12. Gating strategy for CD8+, non-Treg CD4+ and regulatory (Treg) T-cell populations. Characterization was done according to our previously publications on Treg and Tbet gating [31]. Gating strategy is depicted for a representative VSCC tumor sample. (a) Following doublet and dead cell exclusion, CD3+ T cells were selected, which were further divided on the basis of CD4 and CD8 expression. Total CD8+ T cells are gated in green. Within the CD4+ T cells, CD25+CD127- cells (red) were selected for further Foxp3 gating (Foxp3+Tregs) and the non CD25+CD127- CD4+ T cells for further non-Treg CD4 gating (in blue). (b) Expression of the transcription factor Tbet (top panel), and the checkpoint molecules Tim-3 (middle panel) and Lag-3 (bottom panel) within CD3+CD8+ T cells (left), non-Treg CD3+CD4+ T cells (middle) and CD4+CD25+CD127-Foxp3+ T cells (right).