Supplementary Figures

Between innate and adaptive immune responses: HLA-E restricted self-peptides acquired during an artificial hCMV infection determine the cell fate

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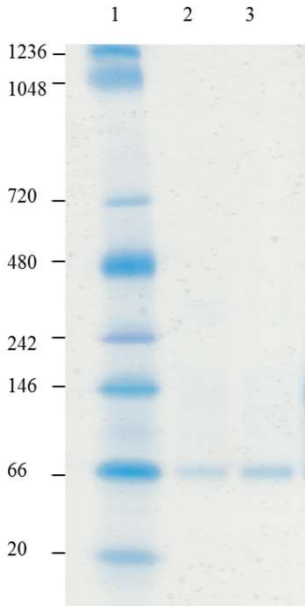
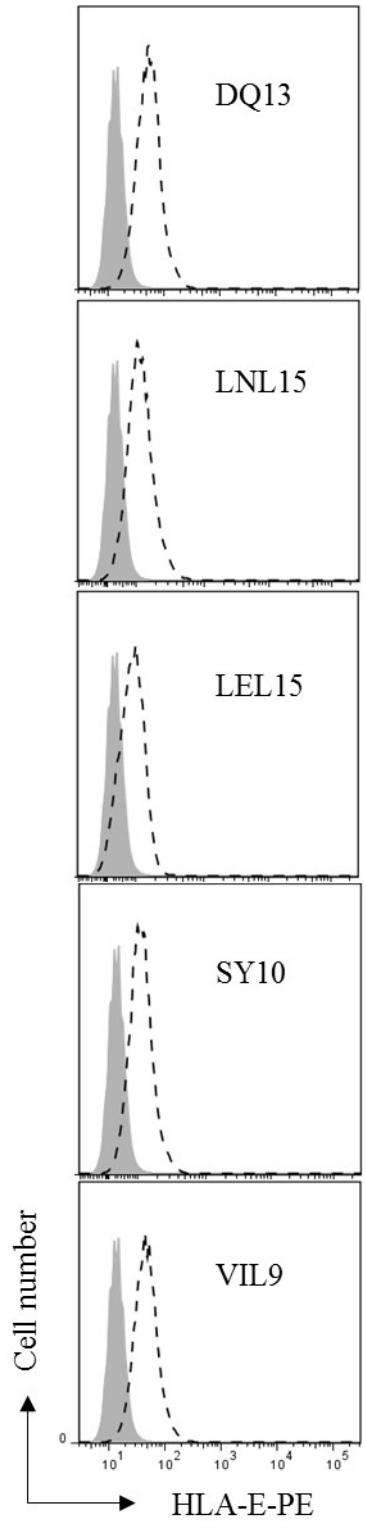
Supplementary Figures

Supplementary Fig. 1 Native PAGE of purified sNKG2/CD94 heterodimers



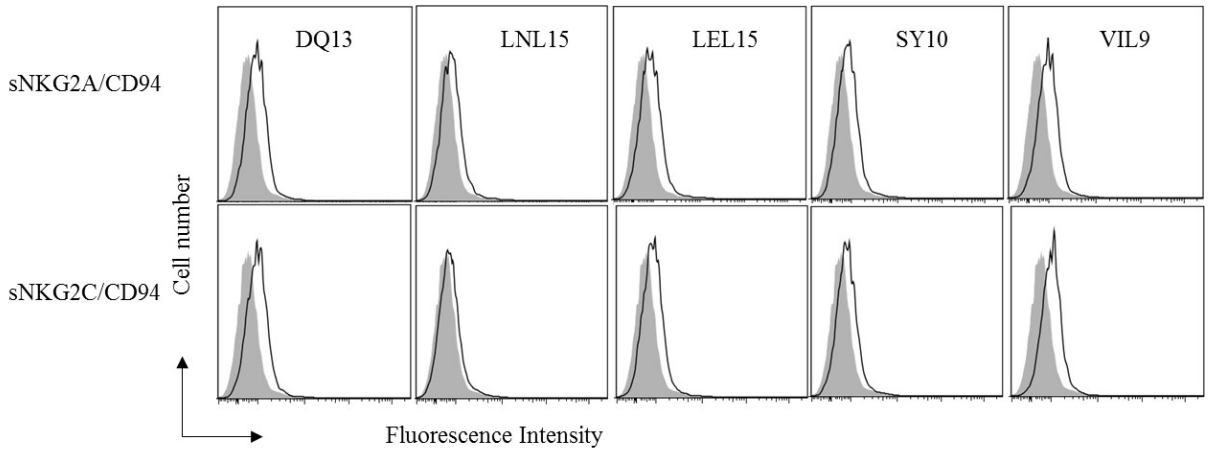
Lanes: 1, standard proteins sized in kDa at left; 2, sNKG2A/CD94; 3, sNKG2C/CD94. Purified sNKG2/CD94 heterodimers exhibit a molecular mass about ~ 66 kDa and no detectable monomers after purification. Proteins were detected with Coomassie blue G-250.

Supplementary Fig. 2 HLA-E surface expression on T2E cells



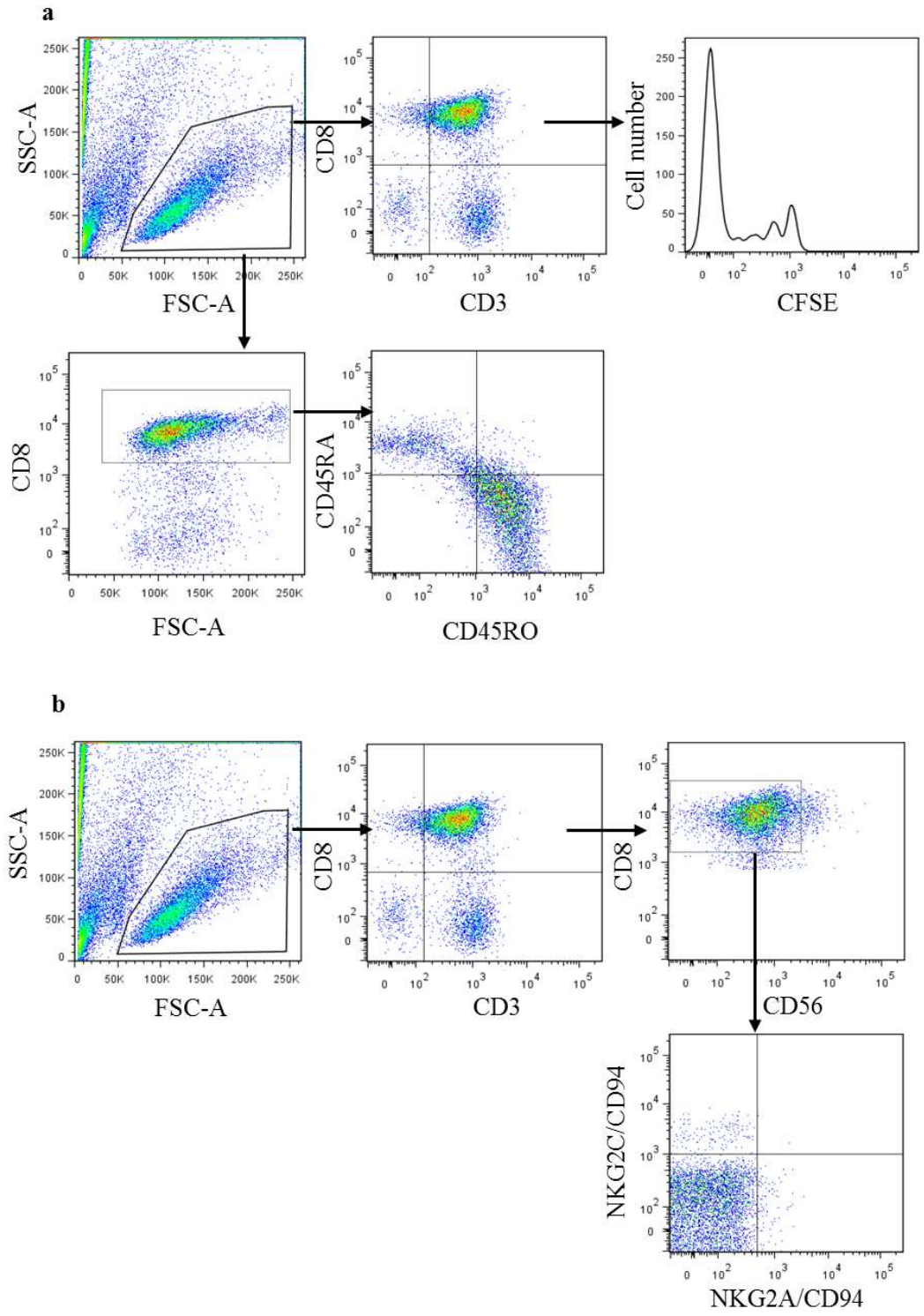
Histograms of HLA-E surface expression levels on T2E cells after incubation with the test peptides. HLA-E surface expression was detected after incubation with the anti-HLA-E 3D12-PE mab and differences in surface expression are indicated: filled grey: T2E cells without peptide, dashed graph: T2E cells with peptide

Supplementary Fig. 3 NKG2/CD94 receptor binding to the p:HLA-E complexes



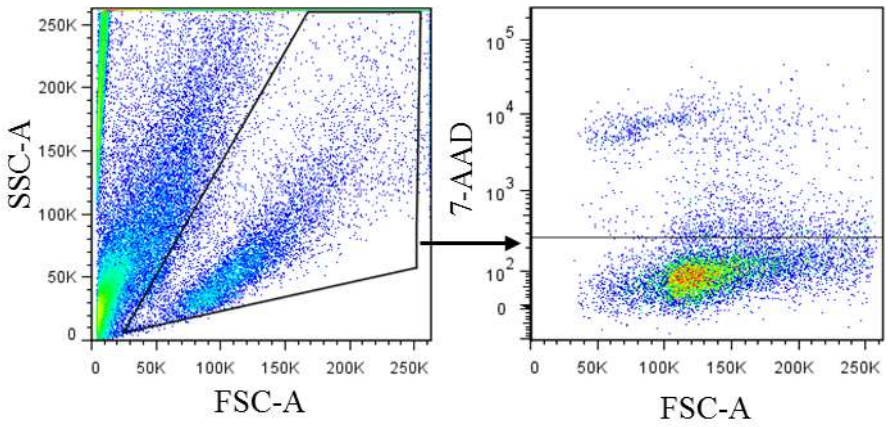
Receptor binding to T2E cells that were not pre-pulsed with peptide served as a negative control and are depicted by the filled grey graph and binding to T2E cells with peptide is indicated by the black graph.

Supplementary Fig. 4 Gating strategy for determination of $CD8^+$ T cell proliferation and phenotype.



a) Proliferated $CD8^+$ T cells were first gated on live cells (FSC-A versus SSC-A), followed by identification of $CD3^+CD8^+$ T cells (CD3 versus CD8). Prolifertaion of $CD8^+$ T cells was analyzed by CFSE dilution. Subgating from live cells to identify $CD8^+$ T cells (FSC-A versus CD8) leads to the determination of CD45RA and CD45RO phenotype of $CD8^+$ T cells (CD45RO versus CD45RA). b) Gating from live cells to identify $CD3^+CD8^+$ T cells. $CD3^+CD8^+$ T cells were strictly gated on $CD56^-$ cells and NKG2A/CD94 and NKG2C/CD94 phenotype of $CD8^+$ T cells were determined (NKG2A/CD94 versus NKG2C/CD94).

Supplementary Fig. 5 Live/Dead discrimination of proliferated $CD8^+$ T cells.



Gating on live cells (FSC-A versus SSC-A) was verified by 7-AAD staining (FSC-A versus 7-AAD) that represents the subgated population to determine the $CD3^+CD8^+$ population.