Piexoto et al., http://www.jem.org/cgi/content/full/jem.20062349/DC1

SUPPLEMENTAL TEXT

Cell screening
We initially screened CD8 T cells recovered at different points of the immune reaction for the expression of 14 effector genes, and we found that the T<sub>H2</sub> cytokine genes (Il4, Il5, and Il13), Lta, and Il15 were never expressed, and that Il10 expression was extremely rare. At some time points, we could find a single cell scoring positive for this cytokine, but, more frequently, all cells were negative. Il2 mRNA expression was relatively more abundant because two to three cells per time point were usually scored. The expression frequency of these rare genes is too low to allow accurate evaluation at a single-cell level and is not described further.

Cell coexpression
We enumerated the secondary memory cells coexpressing Prf1 and Gzmb (and thus potentially able to use the efficient perforin killer pathway), as well as those coexpressing Fasl, which thus have the potential to use both perforin and Fas-L killer pathways simultaneously. We found 15% of the former and an additional 13% of the latter cell types in SM-CD8s. Thus, SM-CD8s had ~28% of cells potentially able to mediate effective killing. In contrast, in PM-CD8s only 3/45 cells coexpressed Prf1 and Gzmb, and 1/45 PM-CD8 cells coexpressed Prf1 Gzmb and Fasl (Fisher’s exact test, P < 0.01).