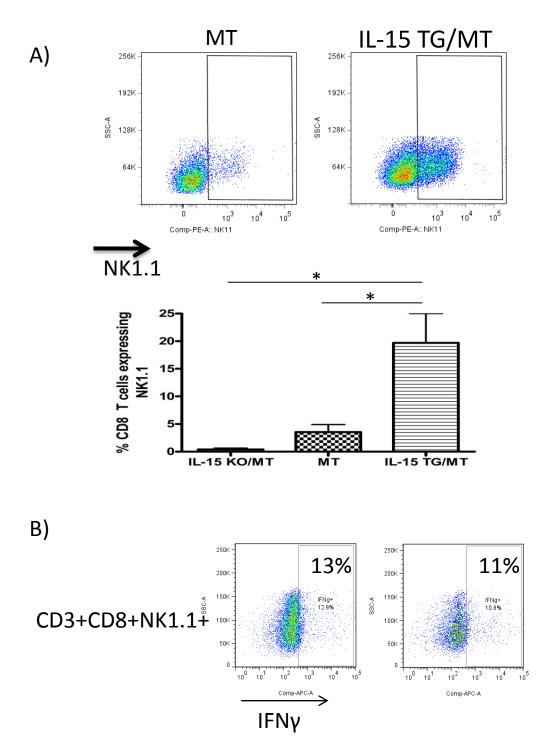
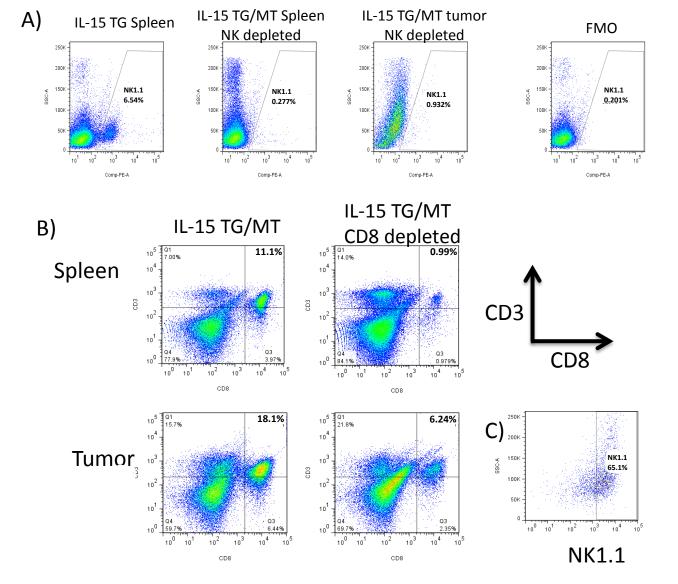


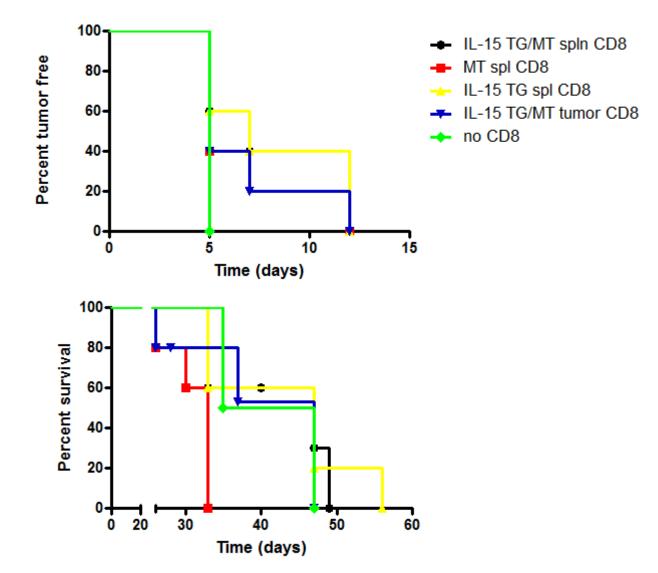
Supplemental Figure 1: IFN γ production by CD8 T cells in the tumor and the spleen of IL-15 TG/MT and MT mice. (A & B) CD8 T cells were isolated by positive selection from tumors of mice and stimulated non-specifically. (A) After stimulation, IL-15 TG/MT CD8 T cells had a higher proportion of CD44+CD62L+ (central memory) cells. (B) Of the CD8+CD3+ T cells, it was the CD44+, both CD62L positive or negative, cells that were capable of producing IFN γ . (n= 3/group) (C - F) CD8 T cells were isolated by positive selection from spleens of mice and stimulated non-specifically. (C) After 48 hours, supernatant IFN γ /TNF α levels were highest in IL-15 TG/MT spleen CD8 cultures (n=3 MT and IL-15 TG/MT, n=1 BL/6 and IL-15 TG-representative of 3 experiments). In another set of experiments, after 12 hours of stimulation, Golgi Stop was added to determine which cells were capable of producing IFN γ (D-F). (D) A higher proportion of IL-15 TG/MT splenic CD8+CD3+ cells produced IFN γ in comparison to MT CD8 T cells. (E) After stimulation, IL-15 TG/MT CD8 T cells had a higher proportion of CD44+ CD62L- (effector/effector memory) and CD44+CD62L+ (central memory) cells. (F) It is the CD44+ cells that are capable of producing IFN γ (D-F, n=3 MT and IL-15 TG/MT, n=2 BL/6, IL-15 KO, IL-15 TG, IL-15 KO/MT).



Supplemental Figure 2: IL-15 TG/MT tumors possess high levels of CD8+CD3+NK1.1+ T cells. (A) Tumors were digested and stained for CD45, CD8, CD3, and NK1.1 for flow cytometric analysis. IL-15 TG/MT tumors possessed high levels of unique CD8+CD3+NK1.1+ T cells (representative of 2 experiments, here n=2/group) (B) When CD8 T cells were isolated from IL-15 TG/MT tumors and stimulated non-specifically with CD3/CD28 antibodies in the presence of GolgiStop, 11-13% of these cells were found to produce IFNγ (n=2). *Statistically significant



Supplemental Figure 3:IL-15 TG/MT mice were depleted with anti-NK1.1 (A) or anti-CD8 α (B/C) antibody long term starting at 4 weeks of age (representative flow plots from n=3 in each). (A) Long term depletion efficiently removed NK1.1 positive cells from both the spleen and tumor (FMO= fluoresence minus one). (B) Long term depletion efficiently removed CD8 positive cells from the spleen, but not completely in the tumor. (C) Of the CD8+CD3+ cells that remained in the tumor, the majority were NK1.1+.



Supplemental Figure 4: Adoptive transfer of CD8 T cells from IL-15 TG/MT, MT or IL-15 TG does not protect from tumor formation. CD8 T cells were isolated from the spleens of IL-15 TG/MT, MT, IL-15 TG or tumors of IL-15 TG/MT mice. 5X10⁶ spleen CD8 T cells and 1X10⁶ tumor CD8 T cells were transferred into lymphopenic hosts. 24 hours later, mice were challenged with 0.5X10⁶ fresh primary MT cells subcutaneously. Resultant mice were followed for tumor formation (A) and endpoint (B). No statistically significant differences were found (n=5 for all groups except those receiving no CD8, n=2).