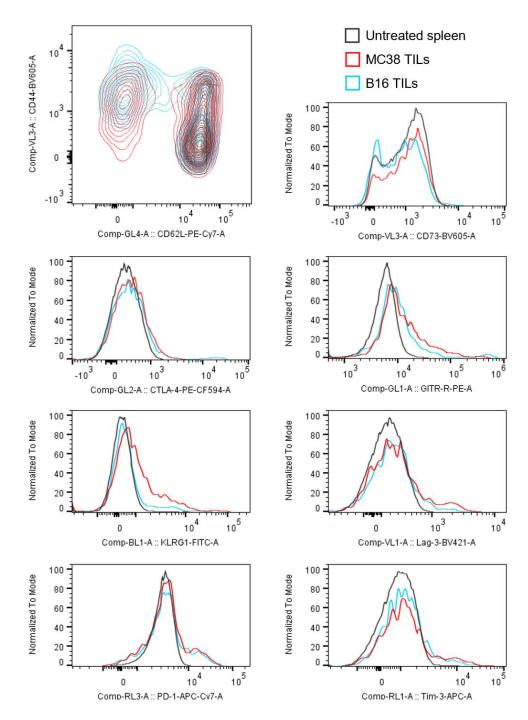
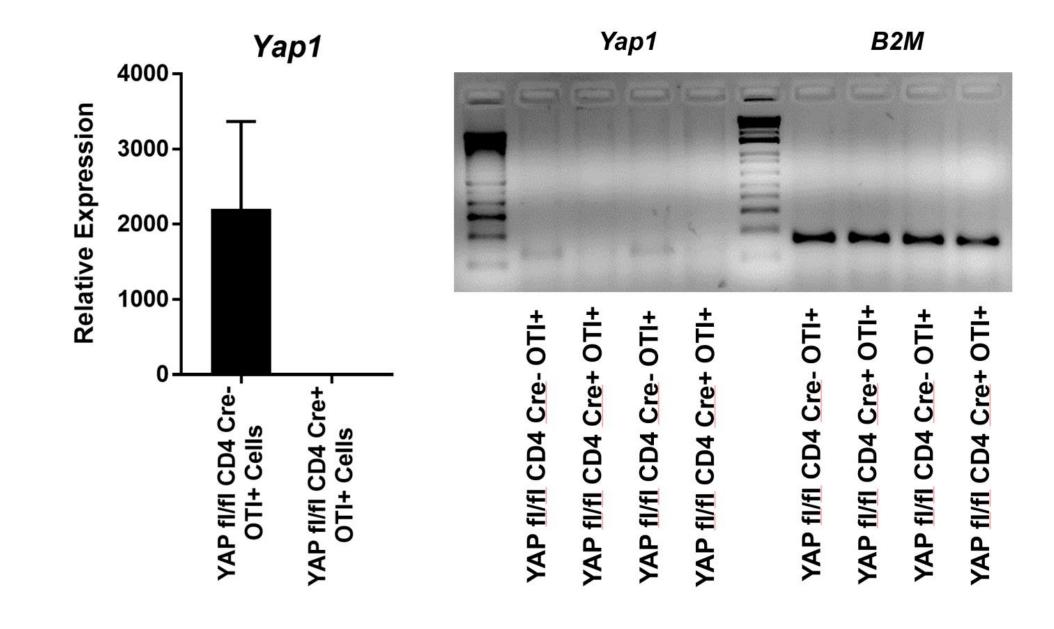


RNAseq data from the Immgen Skyline database compares *Yap1* expression in various murine immune cell subsets. Relative expression values from the database were replotted using Prism software.



Immune cell suspensions from indicated sources were stained for various activation and exhaustion markers, and examined by flow cytometry. Shown plots are of live CD3+ CD8+ cells.

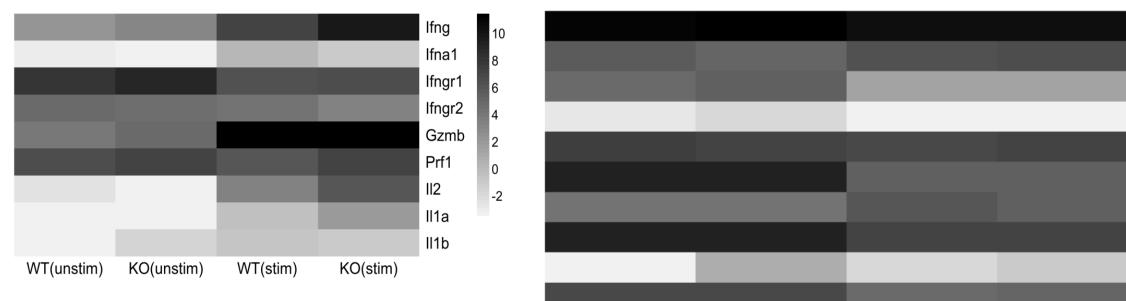


**A.** *Yap1* mRNA differential expression in activated enriched OTI+ CD8+ cells, normalized to *B2M*. *Yap1* primer was designed to span the deletion region (defined by loxP sites). **B.** DNA gel depicting *Yap1* and *B2M* RT-qPCR products.

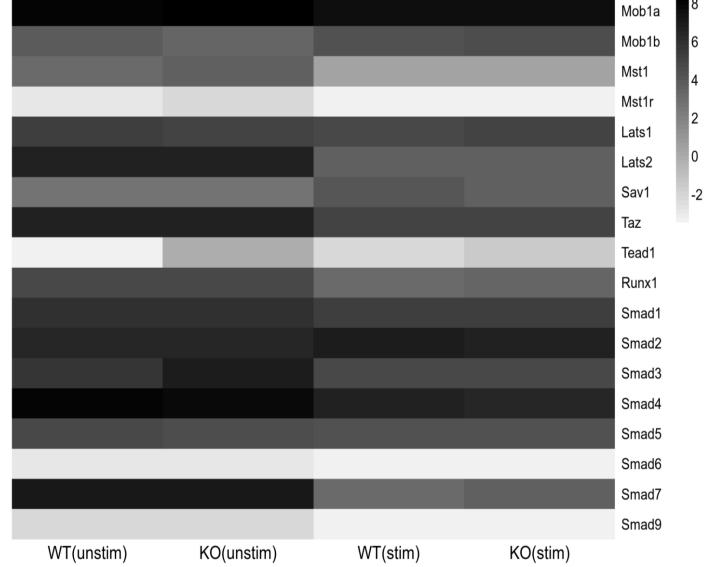


Excised spleen and lymph nodes of indicated animals are depicted.

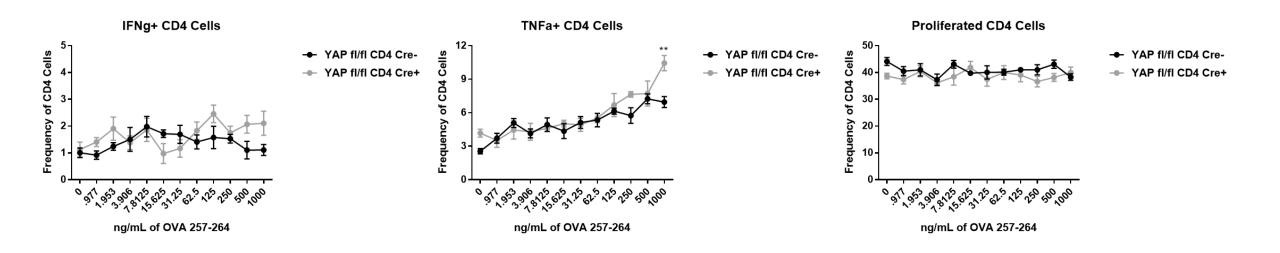




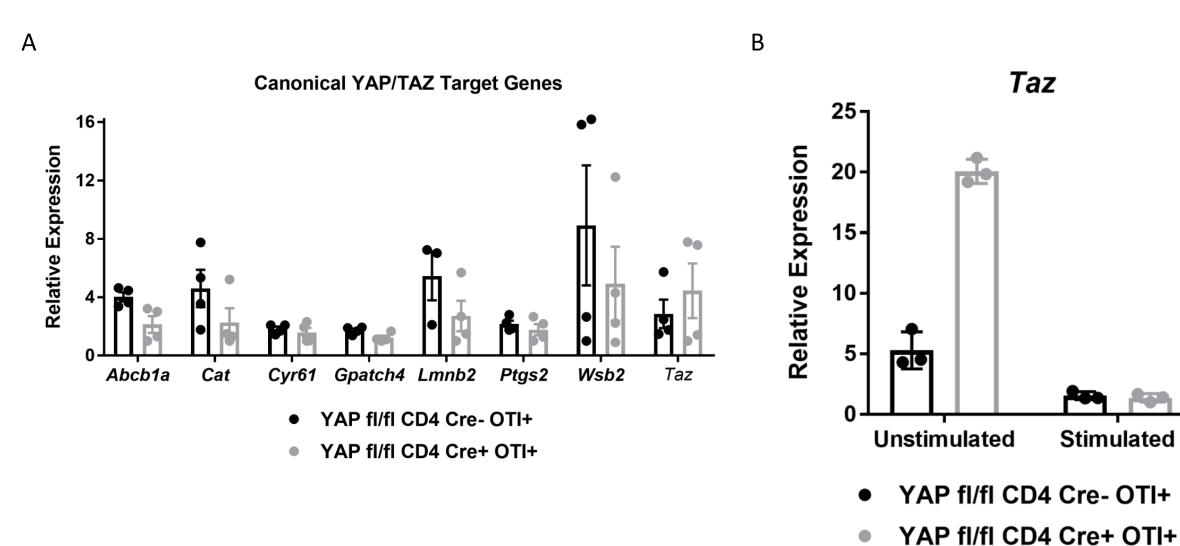
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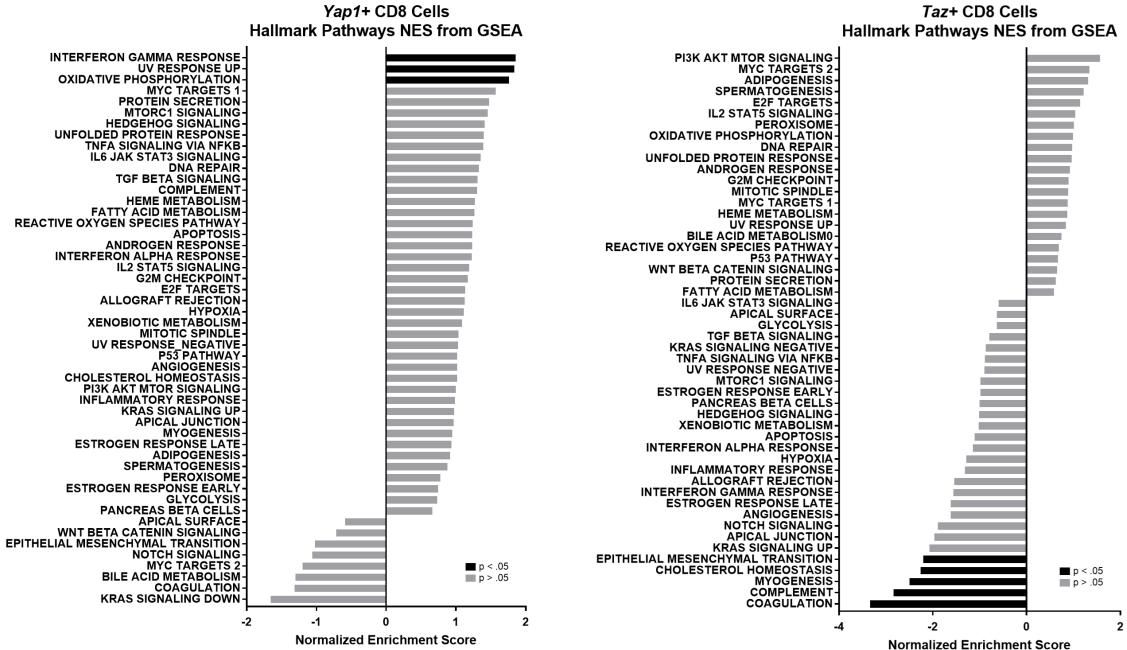
**A.** Heatmap of RNAseq CD8 T cell cytokine gene expression signature (logarithmic scale) in described groups. OTI cells from YAP fl/fl CD4 Cre- FoxP3 Cre+/+ and YAP fl/fl CD4 Cre+ FoxP3 Cre+/+ mice were sorted before and after being activated with SIINFEKL in the presence of IL-2 for 48 hours. **B.** Heatmap of RNAseq Hippo pathway gene expression signature in described groups.



IFN $\gamma$  and TNF $\alpha$  production and proliferation by SIIFEKL-activated OTI+ splenocytes in the presence of IL-2 was quantified using flow cytometry.



**A.** Differential expression of canonical Hippo pathway target genes in enriched OTI+ CD8+ cells activated for 48 hours by SIINFEKL-loaded antigen presenting cells in the presence of IL-2, and normalized using *B2M*. **B**. Differential gene expression of *Taz* in YAP-sufficient vs YAP-deficient animals. Enriched cells were stimulated with SIINFEKL in the prece of IL-2 for four days.



Human melanoma TIL single cell RNAseq data was analyzed for indicated transcriptional signatures. CD8+ cells were segregated into *Yap1*+ vs *Yap*- and *Taz*+ vs *Taz*- groups. Enrichment scores represent up- or down-regulated signatures in cells that expressed the transcriptional coactivators compared to those that did not.