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Supplemental Information

Downmodulation of Tumor Suppressor p53 by T Cell Receptor Signaling Is Critical for Antigen-Specific $CD4^+$ T Cell Responses

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Inventory of Supplemental Information

Main Text Figure 1 is supported by Supplemental Figure 1.
Main Text Figure 7 is supported by Supplemental Figure 2.

Figure S1

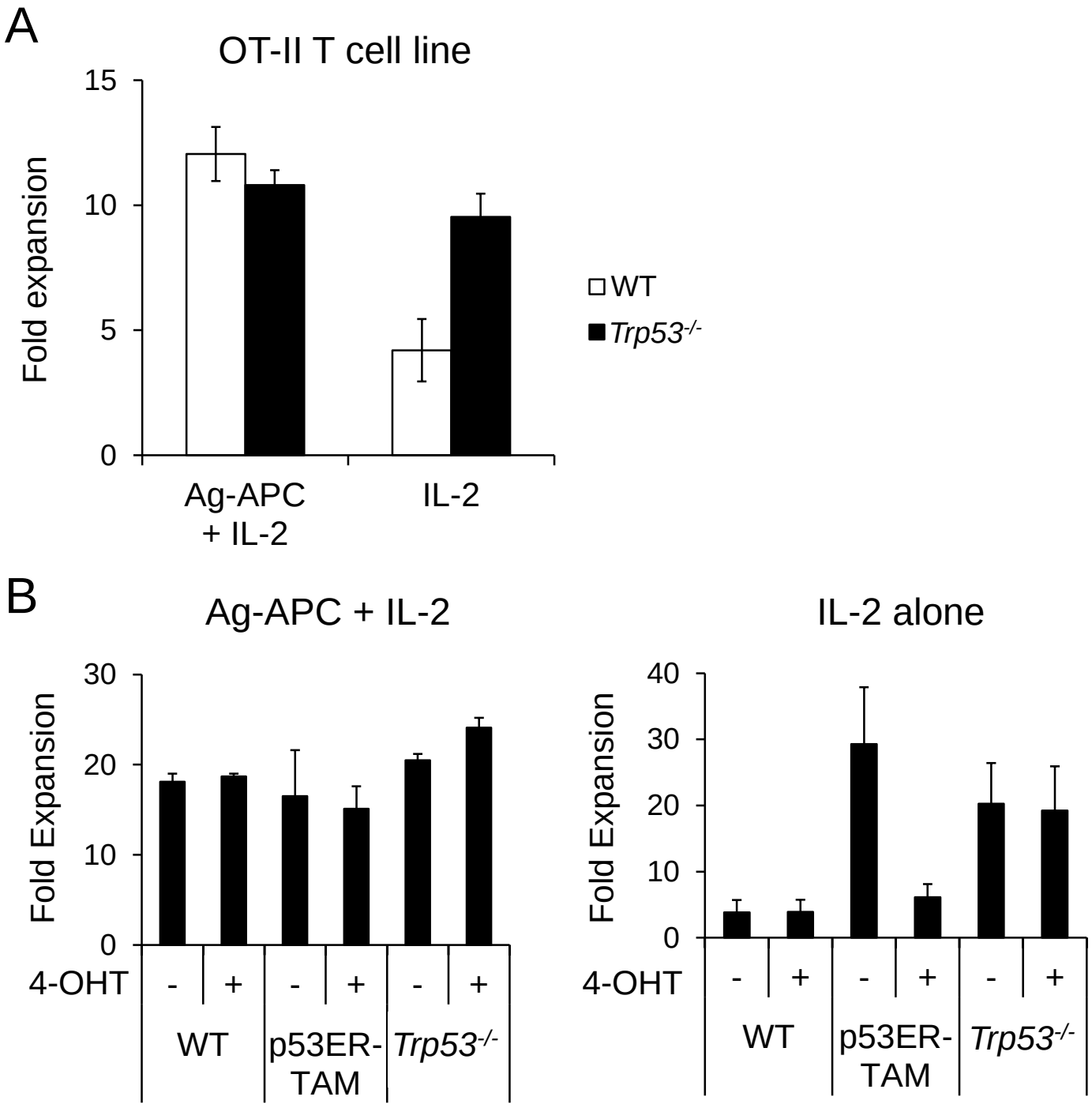

Figure S1, related to Figure 1. (A) Proliferation of OT-II cell line in response to Ag-APC+IL-2 or IL-2 stimulation. OT-II cell lines were established by repeated $OVA_{323-339}$-APC + IL-2 stimulation *in vitro*. Fold expansion is shown for WT and *Trp53*$^{-/-}$ OTII cells upon stimulation with $OVA_{323-339}$-APC + L-2 or IL-2 alone. The data shown are mean ± SEM of pool data of four independent experiments. (B) Specificity of 4-hydoxy tamoxifen (4-OHT) suppression of proliferation of p53ER-TAM clones in response to IL-2 stimulation. KLH-specific p53ER-TAM (7 clones), WT (3 clones) and *Trp53*$^{-/-}$ clones (3 clones) were stimulated with Ag-APC + IL-2 or IL-2 alone with/without 4-OHT. Fold expansion was calculated at day 10. Mean ± SME are shown. The data are representative of three independent experiments.

Figure S2

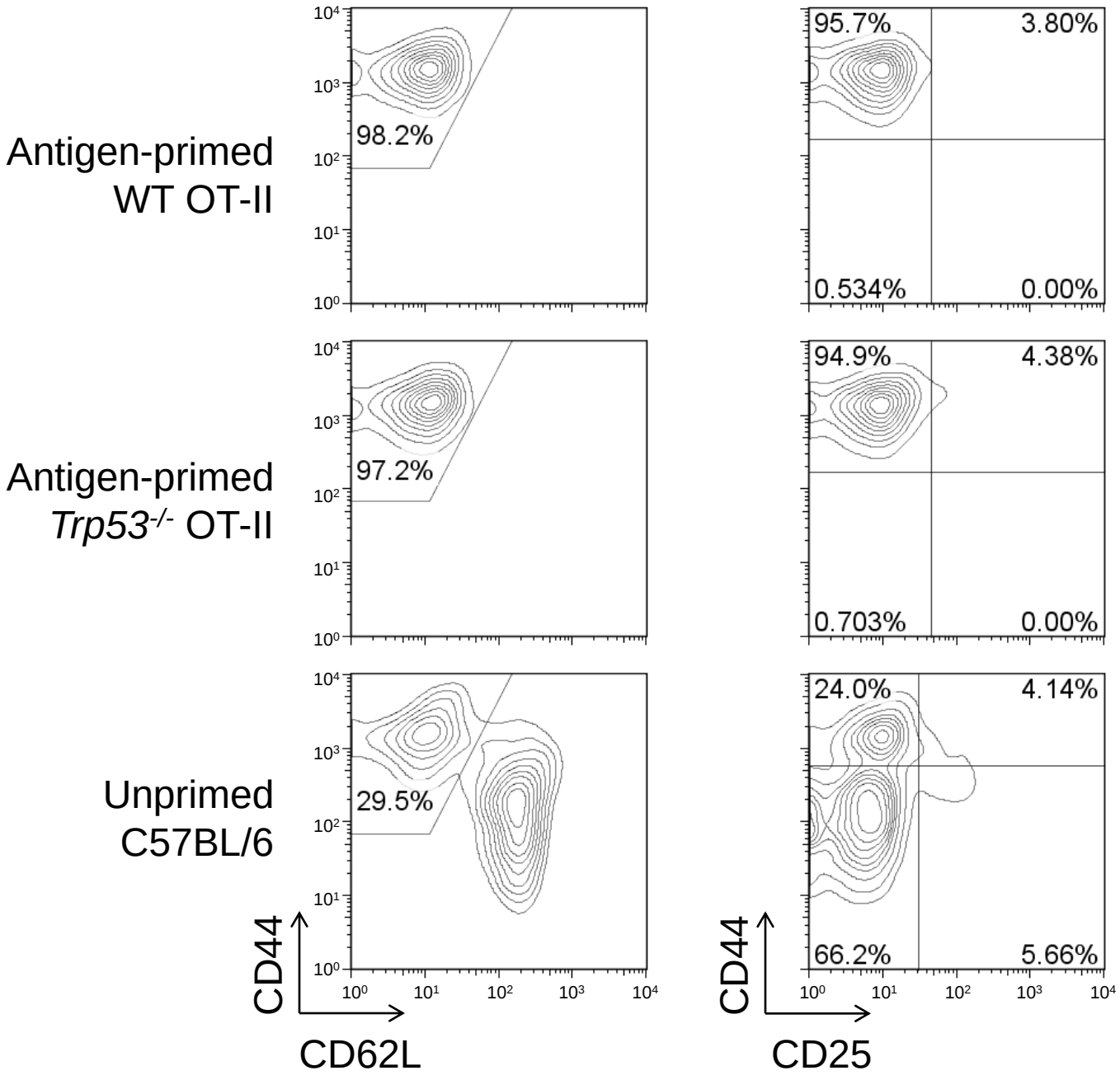

Figure S2, related to Figure 7. Phenotype analysis of *in vivo* antigen-primed OT-II cells. WT or *Trp53*$^{-/-}$ OT-II CD4^{+} cells were transferred to *Rag1*$^{-/-}$ host mice followed by NP-OVA-Alum immunization. Three to four weeks later, splenic CD4^{+} Vα2^{+} Vβ5^{+} cells were analyzed for expression of CD44, CD62L and CD25. Splenic CD4^{+} population of unimmunized C57BL/6 mice was used as a staining control. The data shown are representative of three independent experiments (Total WT; n= 10 mice, *Trp53*$^{-/-}$; n= 5 mice were individually analyzed).