Supplemental Figure legends

Figure S1 The expression of YAP1 in healthy controls, psoriatic lesions, and non-lesional skins was analyzed using GEO database. Analysis of YAP1 mRNA expression in 64 normal healthy skins (NN), 58 psoriatic lesions (Involved skin lesions from psoriatic patients, PP), and 58 samples from individual-matched uninvolved skin of psoriatic patients (Uninvolved skin from psoriatic patients, PN) using the GSE13355 dataset. **: P < 0.01, compared with the indicated controls.

Figure S2. The expression of Yap1 in skin tissues derived from mouse back administrated with si-Yap1/si-CTL in the presence or absence of IMQ treatment. (a) Representative immunohistochemistry images showing the expression of Yap1 in the skin tissues derived from different groups. Scar bar: 25 μm. (b) Quantification data of Yap1 positive cells in the mouse skin samples of different groups (n=8 for each group). ***: P < 0.001, compared with the indicated controls.

Figure S3. The expression of Stat3 and NF-κB in the skins of mice administrated with si-Yap1 in the presence or absence of IMQ treatment. (a) Left panel: Representative images showing the Stat3 expression in the skin tissues derived from different groups. Scar bar: 25 μm. Right panel: Quantification of Stat3 positive cells in the mouse skins of different groups (n=8). (b) Left panel: Representative images showing the NF-κB expression in the skin tissues from different groups. Scar bar: 25 μm. Right panel: Quantification of NF-κB positive cells in the mouse skins of different groups (n=8). ***: P < 0.001, compared with the indicated controls.

Figure S4. Effects of VP on regulating systemic immune response in IMQ-induced psoriasis mouse model. (a) Representative pictures showing the spleen size of mice from different groups. (b) mRNA levels of $Il-1\beta$ in the spleens derived from mice treated with VP or CTL in the presence or absence of IMQ treatment (n=8). (c) mRNA levels of $Il-1\beta$, et al. in the lymph nodes derived from different groups (n=8 for each group). ***: P < 0.001, **: P < 0.001, **: P < 0.005, compared with the indicated controls.

YAP1 mRNA (GSE13355)

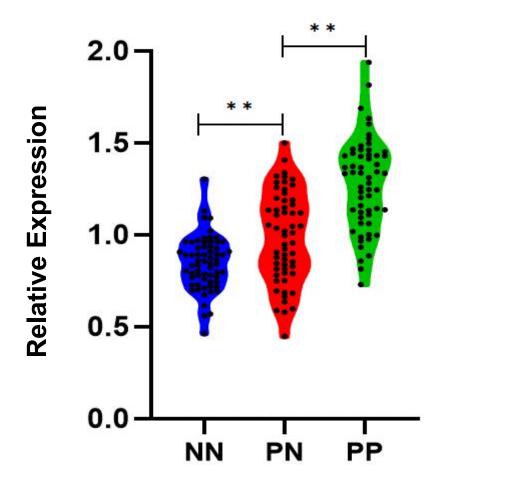


Fig. S1

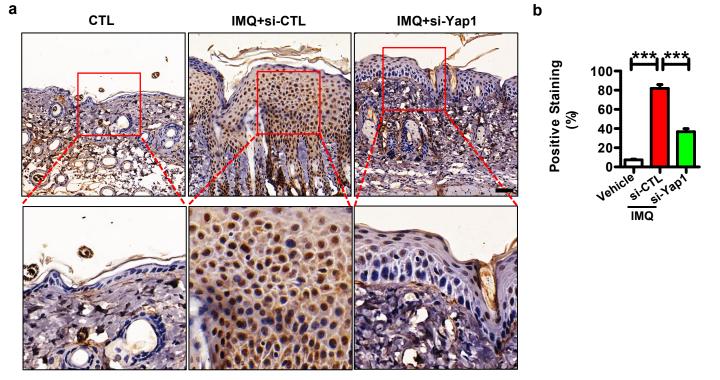
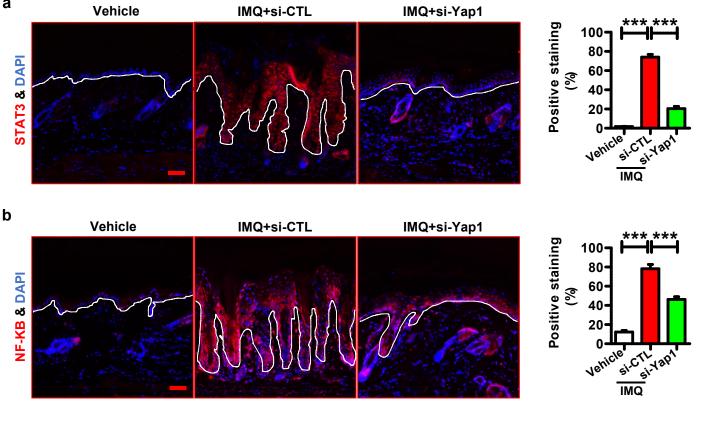


Fig. S2



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Fig. S3

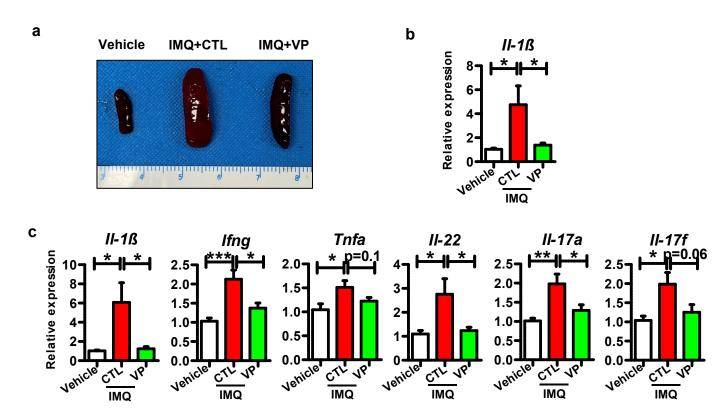


Fig. S4