

Supplementary Materials for

PDLIM2 Inhibits T Helper 17 Cell Development and Granulomatous Inflammation Through Degradation of STAT3

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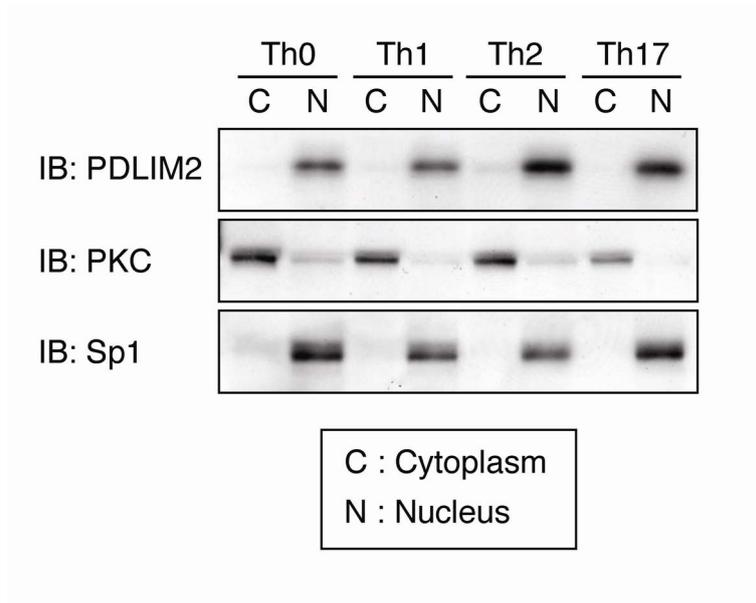


Fig. S1. PDLIM2 in T helper cell subsets. Western blotting (IB) analysis for the presence of PDLIM2 in cytoplasmic (C) and nuclear (N) extracts of the indicated subsets of cultured CD4⁺ T cells. Data are representative of three experiments. PKC and Sp1 were used as markers of the cytoplasmic and nuclear fractions, respectively.

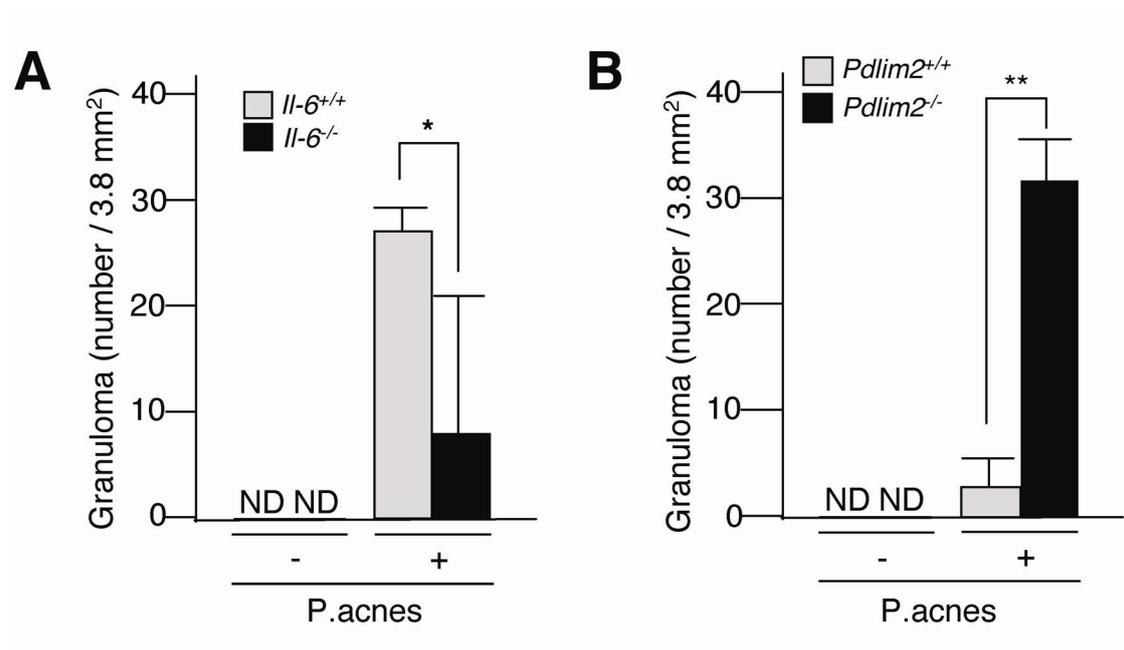


Fig. S2. *P. acnes*-induced granuloma formation in *Il-6*- and *Pdlim2*-deficient mice. Number of liver granulomas in (A) *Il6*^{+/+} (n = 13 mice) and *Il6*^{-/-} mice (n = 6 mice) and in (B) *Pdlim2*^{+/+} (n = 5 mice) and *Pdlim2*^{-/-} mice (n = 5 mice) on day 7 after injection with heat-killed *P. acnes*. Data represent the mean \pm SEM. **P* < 0.05; ***P* < 0.01. ND, not detected.

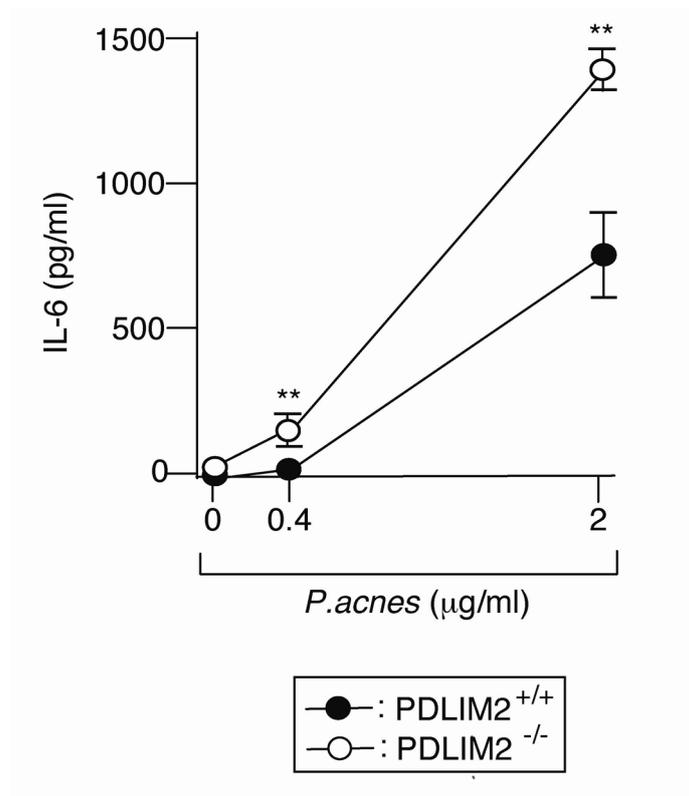


Fig. S3. Enhanced *P. acnes*-induced IL-6 production by *Pdlim2*^{-/-} dendritic cells. IL-6 production by BMDCs cultured with heat-killed *P. acnes* for 20 hours was measured by ELISA. Data represent the mean \pm SD. ** $P < 0.01$. Data are representative of three experiments.

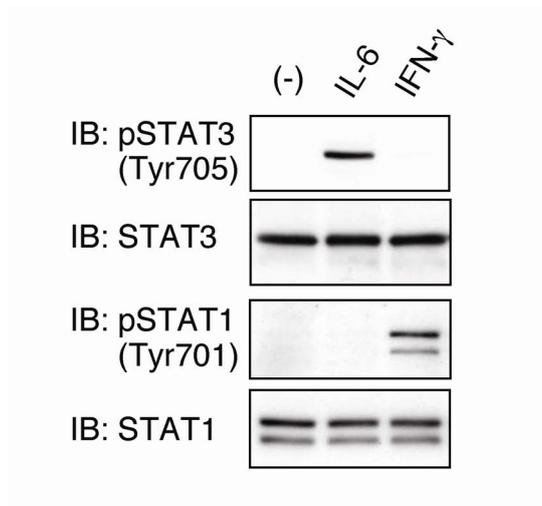


Fig. S4. IL-6 induces tyrosine phosphorylation of STAT3, but not STAT1. Western blotting analysis of total cell lysates of CD4⁺ T cells stimulated with either IL-6 (10 ng/ml) or IFN- γ (10 ng/ml) for 1 hour. Data are representative of two experiments.

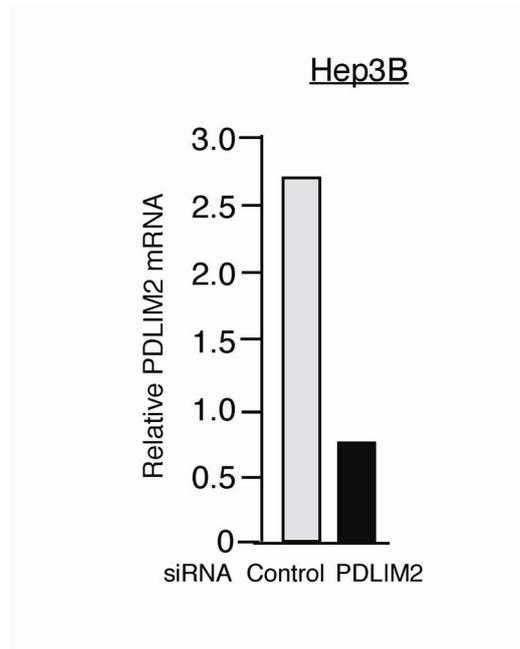


Fig. S5. Reduction in *Pdlim2* mRNA abundance by PDLIM2-specific siRNA. Real-time RT-PCR analysis of the abundance of *Pdlim2* mRNA in Hep3B cells transfected with control or PDLIM2-specific siRNA. The amount of *Pdlim2* mRNA was normalized to that of the internal control *G3PDH*. Data are representative of three experiments.