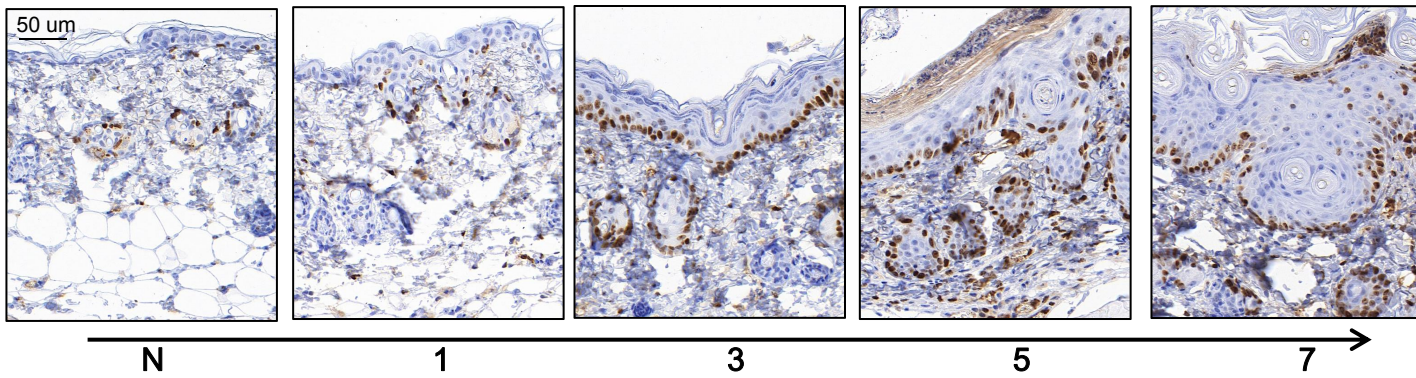
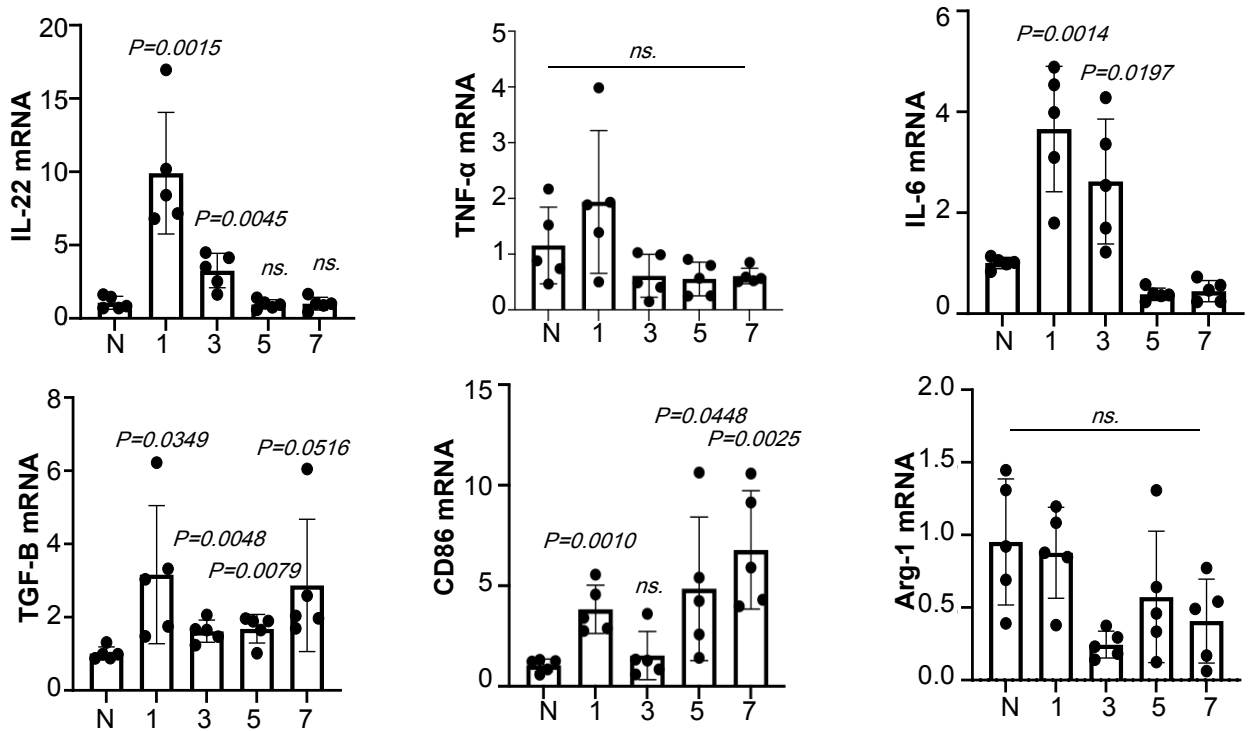


A Ki-67



B



C

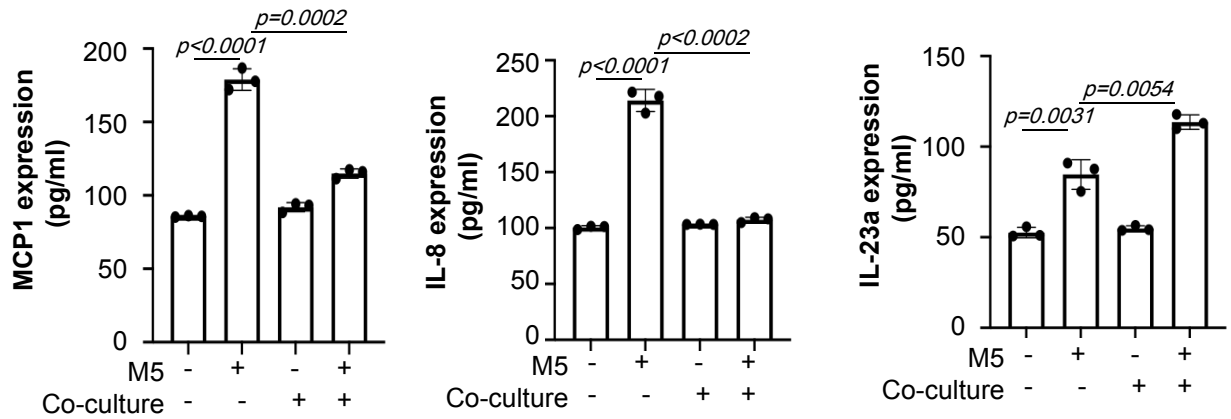


Fig. S1

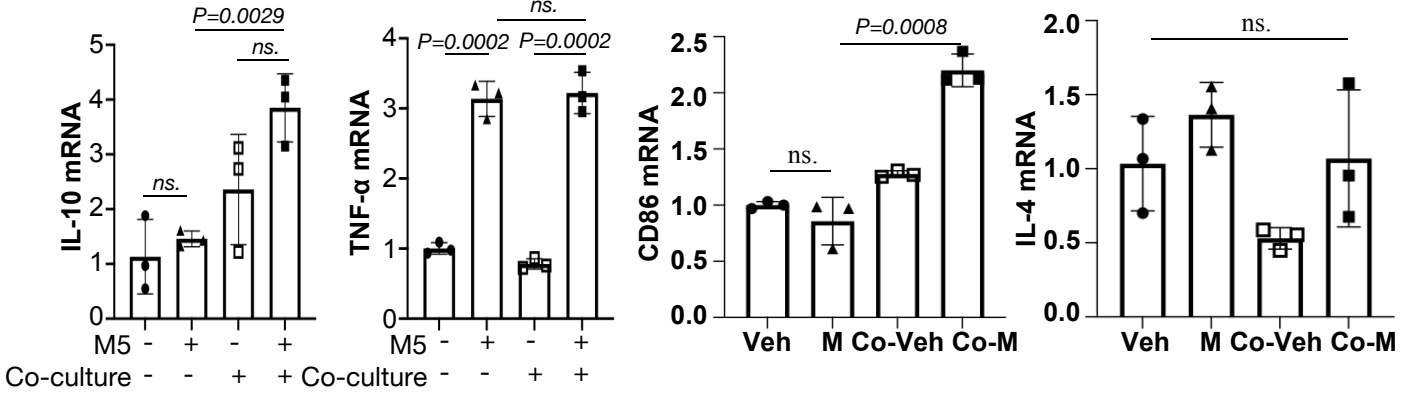
(A) Mice skin tissues stained with Ki-67. Scale bar, 50 μ M.

(B) IL-22, TNF- α , IL-6, TGF-B, CD86 and Arg1 mRNA was assessed by quantitative real-time PCR.

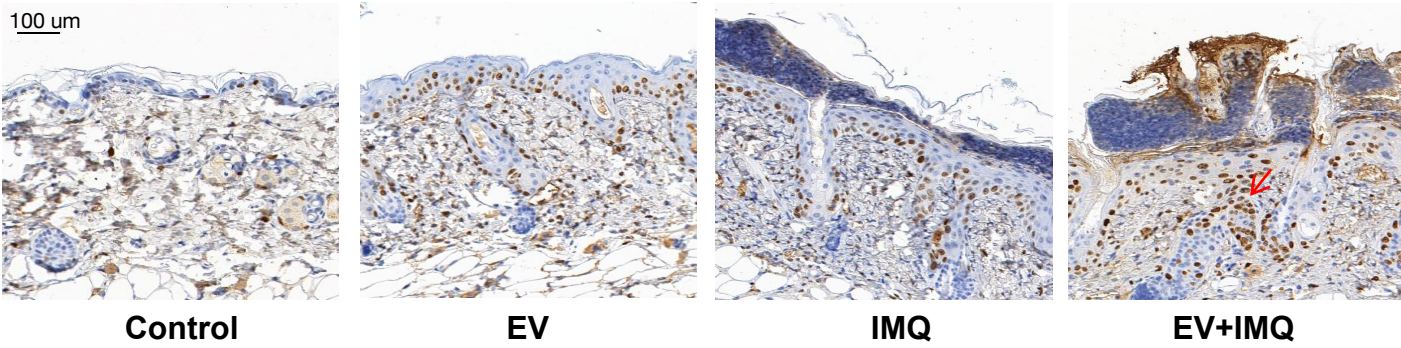
(C) The protein levels of MCP-1, IL-8, IL-23a in the co-culture supernatant were detected by ELISA.

Similar results were obtained in 3 independent experiments with 5 mice per group or in triplicate culture assays.

A



B Ki-67



C

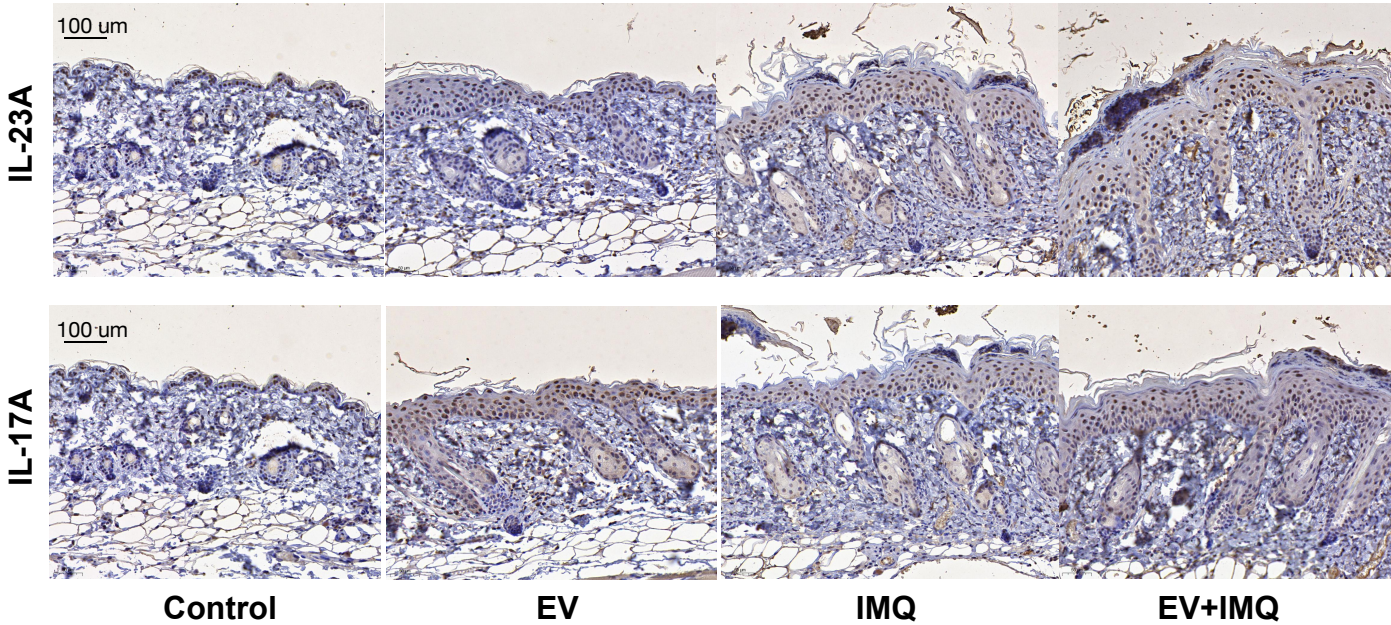


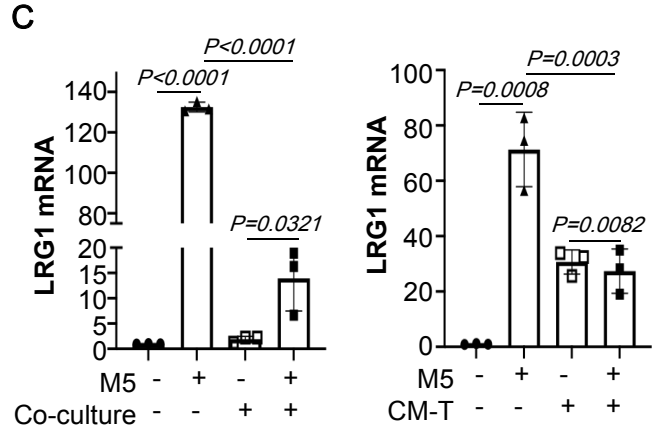
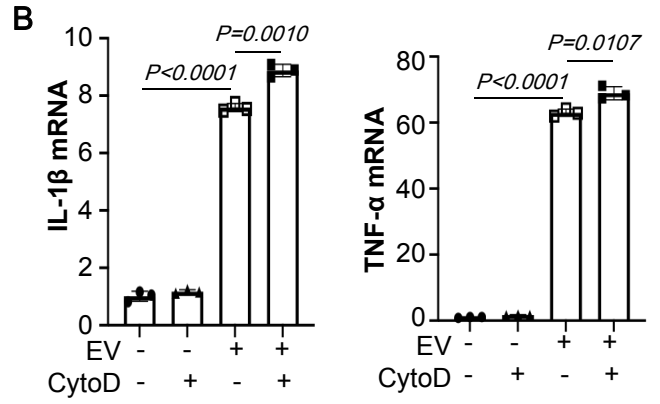
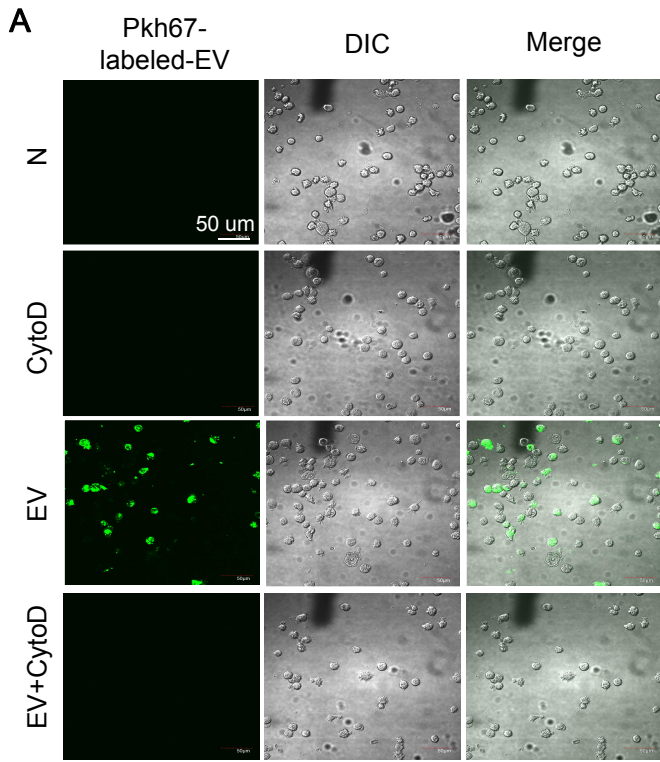
Fig. S2

(A) The mRNA levels of IL-10, TNF- α , CD86 and IL-4 in THP-1 cells analysed by quantitative real-time PCR.

(B) Mice skin tissues stained with Ki-67. Scale bar, 100 μ m.

(C) Mice skin tissues stained with IL-23A and IL-17A. Scale bar, 100 μ m.

Similar results were obtained in 3 independent experiments or in triplicate culture assays.



D

LRG1

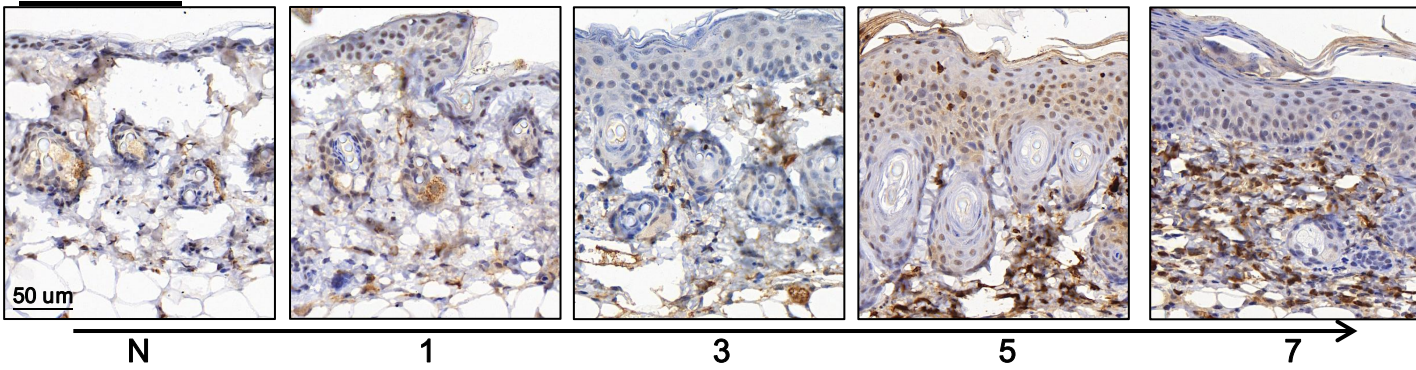


Fig. S3

(A) THP-1 cells were differentiated using PMA treatment for 48 h. Thereafter, THP-1 cells were pretreated with cytochalasin D (1 μ M) followed by 18 hour incubation with EV (10^{10} /mL) isolated from M5-treated HaCaT cells. Prior to this incubation, EV were labeled using fluorescent dye PKH67. EV uptake by macrophages was visualized using confocal microscopy.

(B) Differentiated macrophage-like THP-1 cells were pretreated with cytochalasin D (1 μ M) for 1 hour followed by incubation with lipotoxic M5-treated HaCaT-derived EV (10^{10} /mL) for 18 hours. Effect of cytochalasin D on TNF- α and IL-1 β mRNA levels in THP-1 cells analysed by quantitative realtime PCR.

(C) The level of LRG1 in HaCaT cells of co-culture system and conditioned media culture model analysed by quantitative real-time PCR.

(D) Mice skin tissues stained with LRG1. Scale bar, 50 μ m.

Similar results were obtained in 3 independent experiments or in triplicate culture assays.

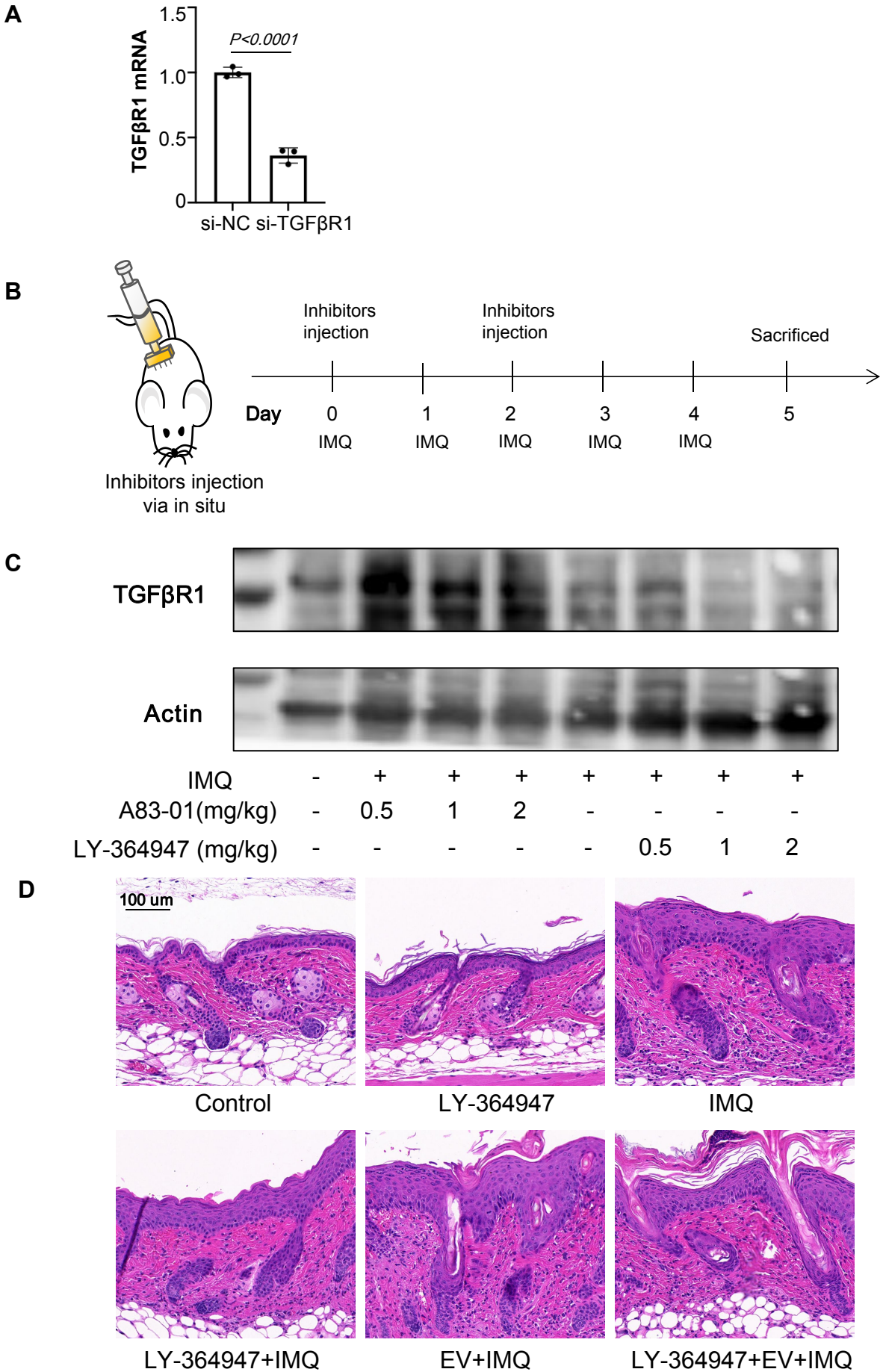


Fig. S4

(A) The level of TGF β R1 in THP-1 cells treated with si-TGF β R1 analysed by quantitative real-time PCR.

(B) Different concentrations of A83-01 and LY-364947 were used to downregulate the expression of TGF β R1 in IMQ-induced mice by skin in situ injection.

(C) Expression of TGF β R1 were detected by western blot.

(E) Mice skin tissues stained with H&E. Scale bar, 100 μ m.

Similar results were obtained in 3 independent experiments or in triplicate culture assays.

Table.S1. Primer sequences for quantitative real-time PCR**Supplemental Table 1. Primer sequences**

Genes	Forward primer (5'-3')	Reverse primer (5'-3')
Human		
<i>β-ACTIN</i>	CATGTACGTTGCTATCCAGGC	CTCCTTAATGTCACGCACGAT
<i>LRG1</i>	GGACACCCTGGTATTGAAAGAAA	TAGCCGTTCTAATTGCAGCGG
<i>TGFβR1</i>	CATTTTTCCCAAGTGCCAGT	ACACCCCTAAGCATGTGGAG
<i>IL-10</i>	GACTTTAAGGGTTACCTGGGTTG	TCACATGCGCCTTGATGTCTG
<i>TNFα</i>	GTACCTCATCTACTCCCAGG	CAGACTCGGCAAAGTCGAGA
<i>IL-1β</i>	CCACAGACCTTCCAGGAGAATG	GTGCAGTTCAGTGATCGTACAGG
<i>IL-23A</i>	CTCAGGGACAACAGTCAGTTC	ACAGGGCTATCAGGGAGCA
<i>MCP1</i>	AGAATCACCAGCAGCAAGTGTCC	TCCTGAACCCACTTCTGCTTGG
<i>IL-8</i>	GAGAGTGATTGAGAGTGGACCAC	CACAACCCTCTGCACCCAGTTT
<i>CD86</i>	CTGCTCATCTATACACGGTTACC	GGAAACGTCGTACAGTTCTGTG
<i>IL-4</i>	CGGCAACTTTGTCCACGGA	TCTGTTACGGTCAACTCGGTG
Mouse		
<i>LRG1</i>	TTGGCAGCATCAAGGAAGC	CAGATGGACAGTGTCGGCA
<i>β-actin</i>	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT
<i>IL-23A</i>	AATAATGTGCCCCGTATCCAGT	GCTCCCCTTTGAAGATGTCAG
<i>IL17-A</i>	TCGAGAAGATGCTGGTGGGT	CTCTGTTTAGGCTGCCTGGC
<i>IL-1β</i>	GCAACTGTTCTGAACTCAACT	ATCTTTTGGGGTCCGTCAACT
<i>IL-10</i>	GCTCTTACTGACTGGCATGAG	CGCAGCTCTAGGAGCATGTG
<i>IL-22</i>	ATGAGTTTTTCCCTTATGGGGAC	GCTGGAAGTTGGACACCTCAA
<i>TGF-B</i>	CTCCCGTGGCTTCTAGTGC	GCCTTAGTTTGGACAGGATCTG
<i>IL-6</i>	TAGTCCTTCCCTACCCCAATTTCC	TTGGTCCTTAGCCACTCCTTC

<i>TNF-α</i>	CCTCTCTCTAATCAGCCCTCTG	GAGGACCTGGGAGTAGATGAG
<i>CD86</i>	TGTTTCCGTGGAGACGCAAG	TTGAGCCTTTGTAAATGGGCA
<i>ARG-1</i>	CTCCAAGCCAAAGTCCTTAGAG	AGGAGCTGTCATTAGGGACATC
