

Expanded View Figures

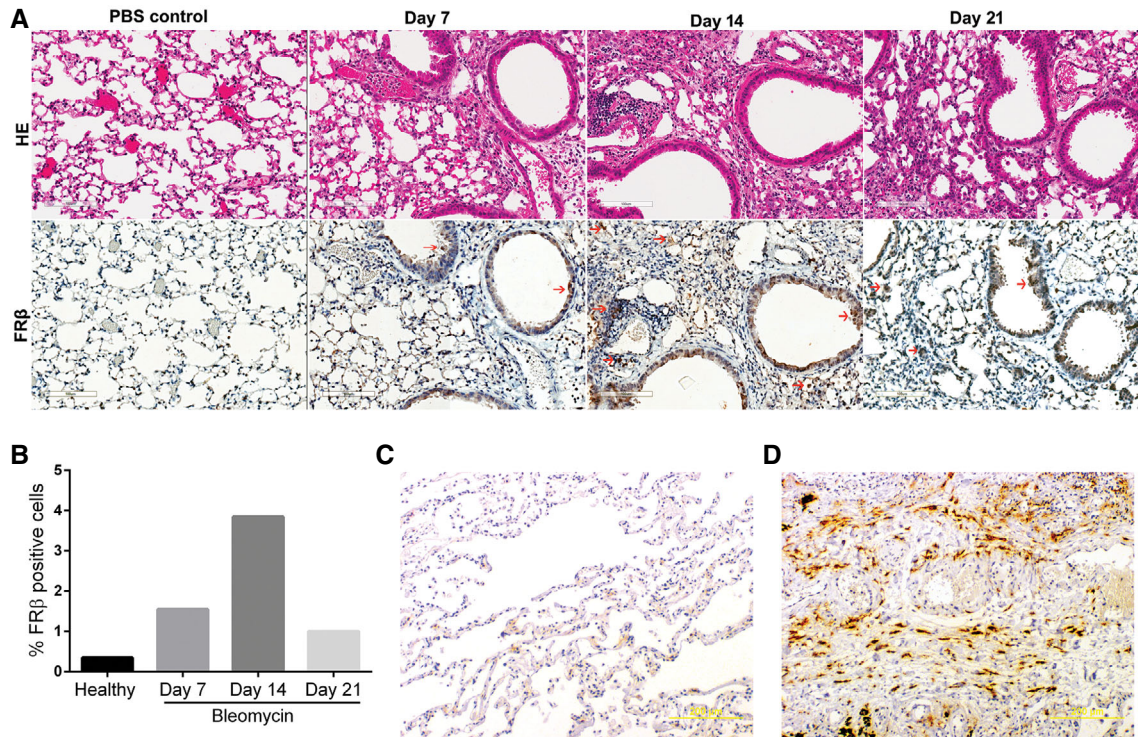


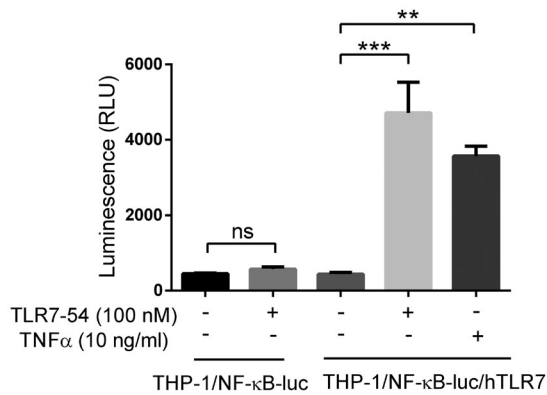
Figure EV1. FRβ expression in murine (A&B) and human (C&D) lungs.

A Mice with BLM-induced experimental fibrosis were stained using a monoclonal antibody to mouse FRβ (F3). Representative FRβ-positive macrophages are marked with red arrows. H&E and FRβ IHC staining were performed on days 7, 14, and 21 post-BLM-induced lung injury. More than 90×10^6 cells were quantified per section using Aperio Image Scope (Leica Biosystems). Scale bars, 100 μ m.

B Quantification of FRβ staining in sections from panel A.

C, D IHC staining of healthy (C) or IPF (D) human lung tissue with a monoclonal antibody to human FRβ (m909). Scale bars, 200 μ m.

Source data are available online for this figure.



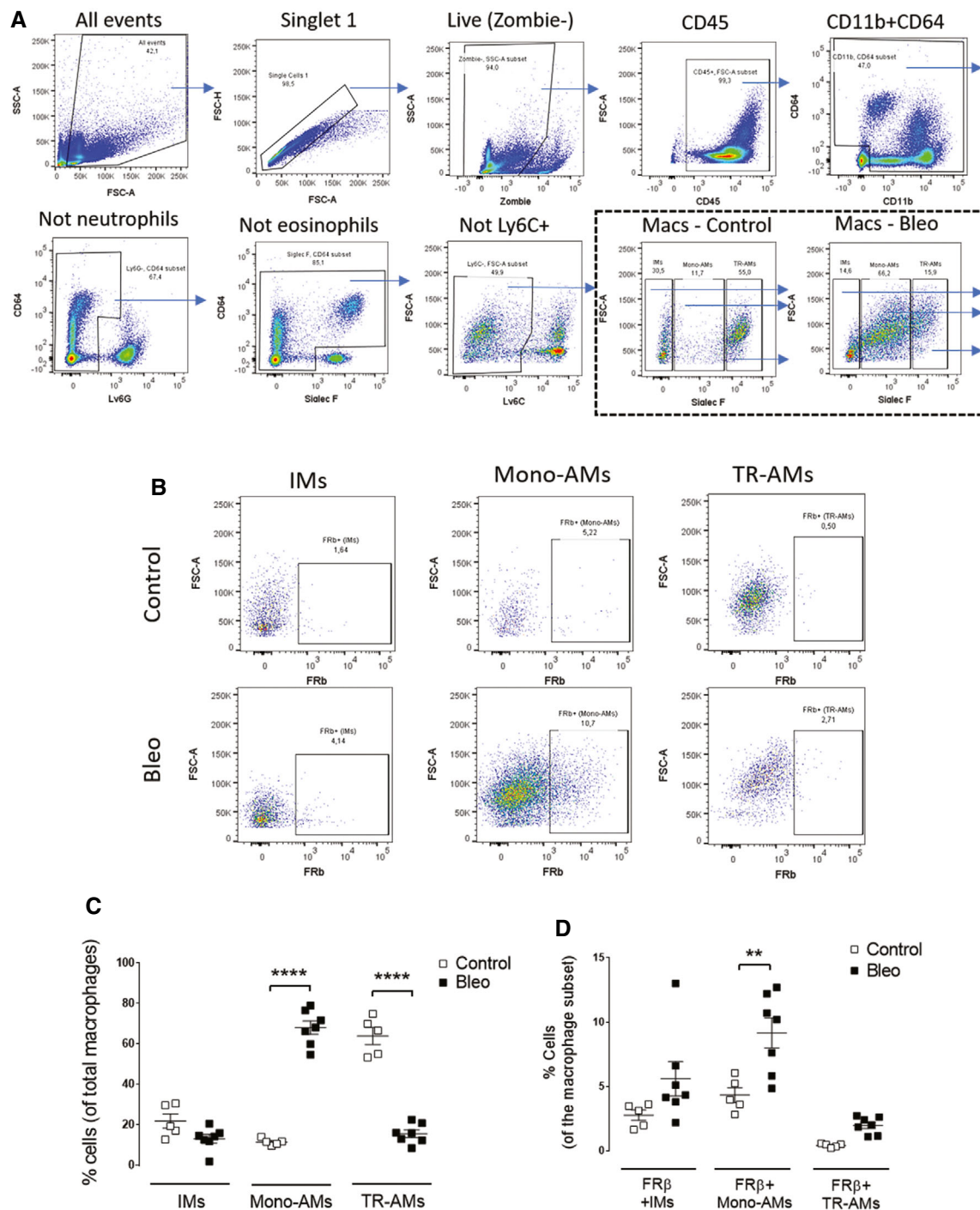


Figure EV3.

Figure EV3. Monocyte-derived alveolar macrophages constitute the predominant macrophage subpopulation that expresses FR β following BLM-induced lung injury.

Ten days following intratracheal instillation of bleomycin (0.75 mg/kg), mice were sacrificed and lungs were processed for flow cytometric staining and analysis.

A Representative plots showing the gating strategy leading to various macrophage subpopulations.

B Representative plots showing FR β expression on interstitial macrophages (IMs), monocyte-derived alveolar macrophages (Mono-AMs), and tissue-resident alveolar macrophages (TR-AMs).

C Percentages of IMs, Mono-AMs, and TR-AMs present in the total macrophage pool (Ly6C⁻ gate) ($n = 5-7$).

D Proportion of FR β -expressing IMs, FR β -expressing Mono-AMs, and FR β -expressing TR-AMs in the corresponding parent populations ($n = 5-7$). All samples were derived at the same time and processed in parallel.

Data information: Mean $\pm$ SEM. Significance was compared with one-way ANOVA using Tukey's multiple comparison test (** $P < 0.01$, **** $P < 0.0001$).

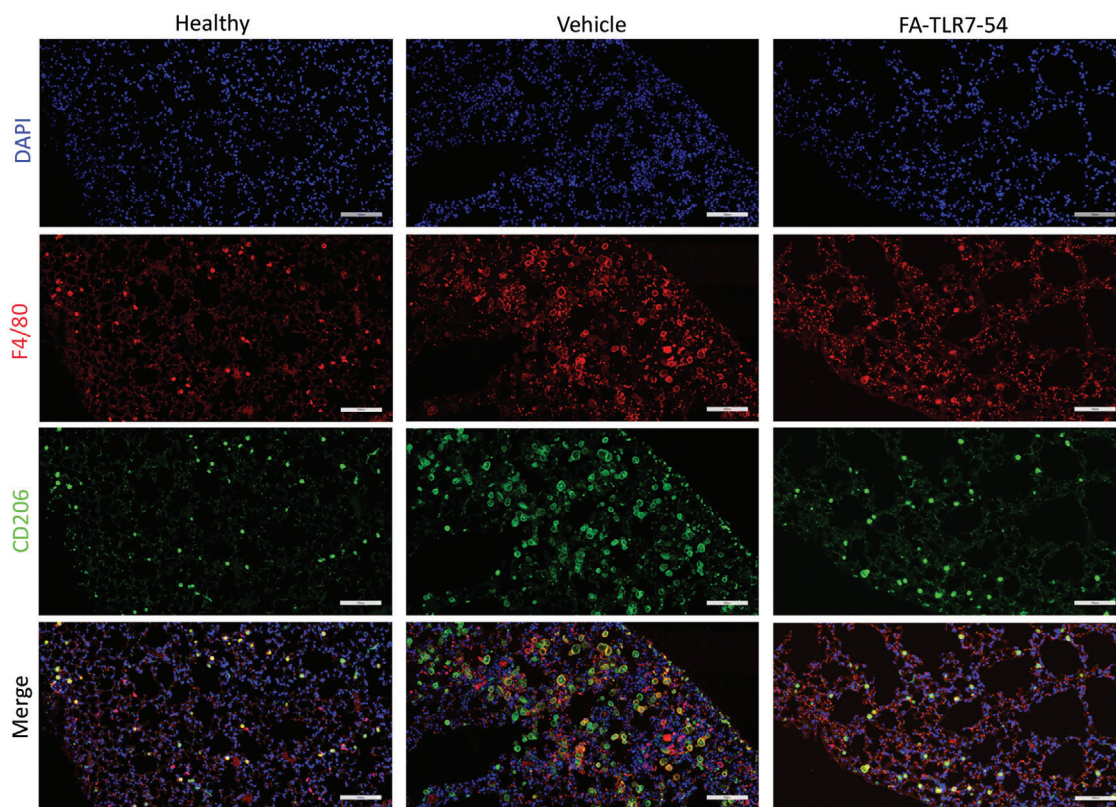


Figure EV4. Treatment with FA-TLR7-54 reduces CD206-positive macrophages in fibrotic lungs.

Sections from the same healthy and fibrotic lungs described in Fig 5 were stained with DAPI (nuclei; blue), anti-F4/80 (macrophages; red), and anti-CD206 (M2 macrophage marker; green), and images were obtained with a Leica Versa 8 whole-slide scanner as described in Materials and Methods ($n = 2$). Scale bars, 100 μ m.

Source data are available online for this figure.