

**Supplementary Figure 2.** Representative western blot images showing the expression of HMGB1 and Gp91 phox (NOX-2) in the lung tissues of *E. coli* injured animals treated with PBS, naïve and IFN- $\gamma$  primed MSC-EVs (**Panel A**). There were no significant changes in the ratios of HMGB1/ $\beta$ -actin (**Panel B**) or Gp91 phox (NOX-2)/ $\beta$ -actin (**Panel C**) expression in lung tissue following *E. coli* induced injury and treatment with EVs or PBS. Data are presented as means  $\pm$  SD. Number of animals for all panels: IFN $\gamma$  MSC-EVs (N = 8), MSC-EVs (N = 6), vehicle (N = 8); Two Western blots were done and quantified (MSCs: Mesenchymal stem cells, EVs: extracellular vesicles, IFN- $\gamma$  interferon-  $\gamma$  , PBS: phosphate buffered saline, HMGB1: high mobility group box 1 protein, Gp91 phox (NOX-2): nicotinamide adenine dinucleotide phosphate oxidase, *E. coli*: Escherichia coli).

