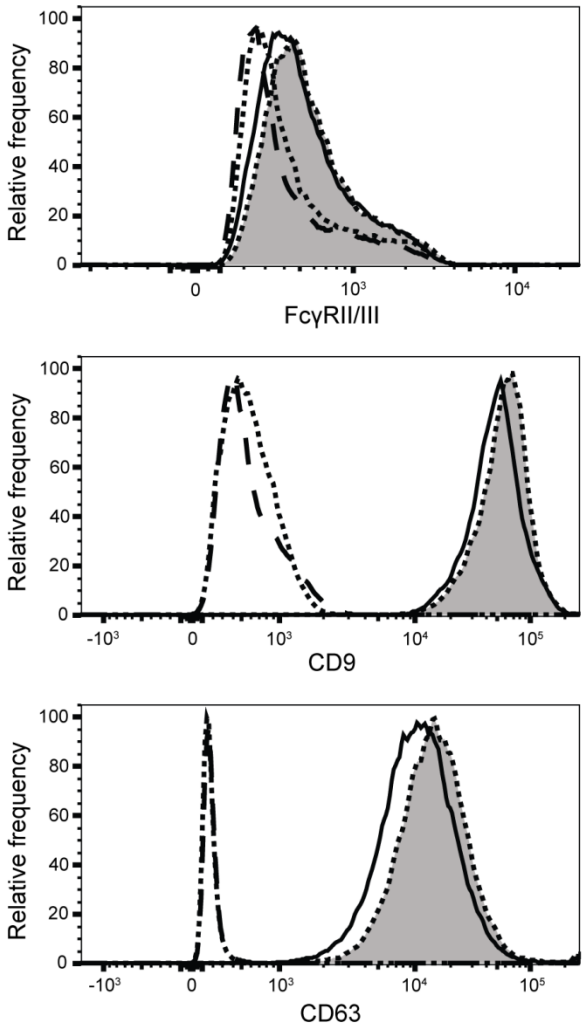
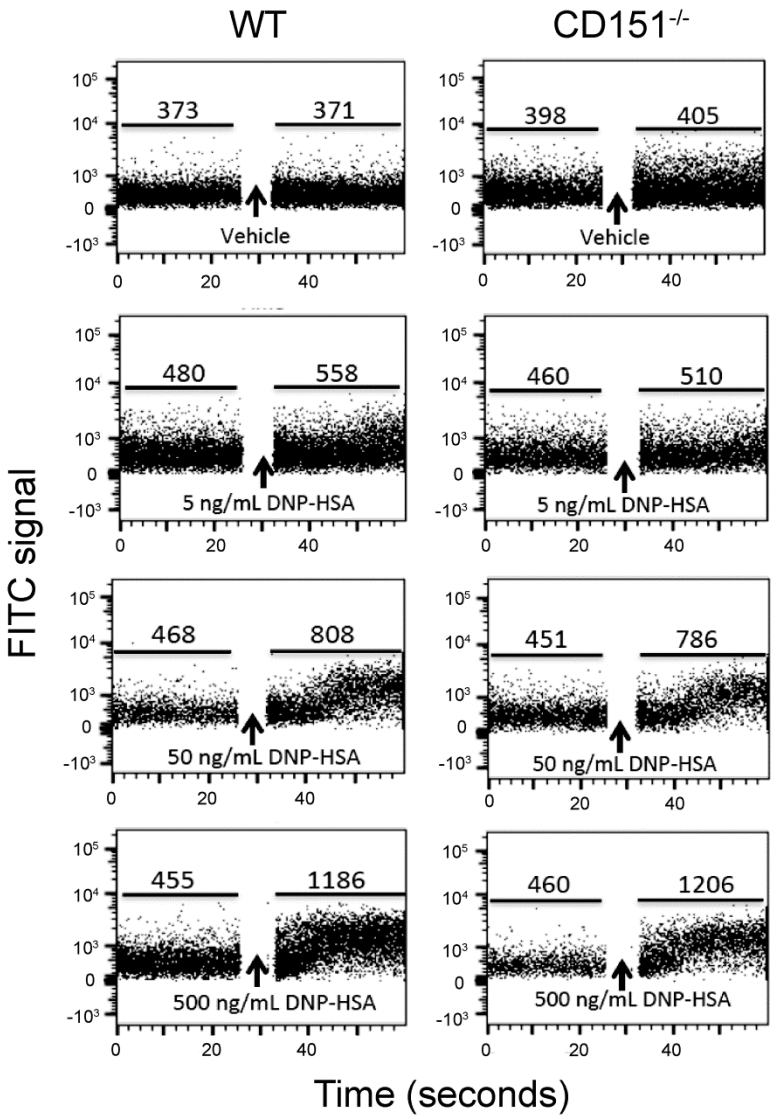
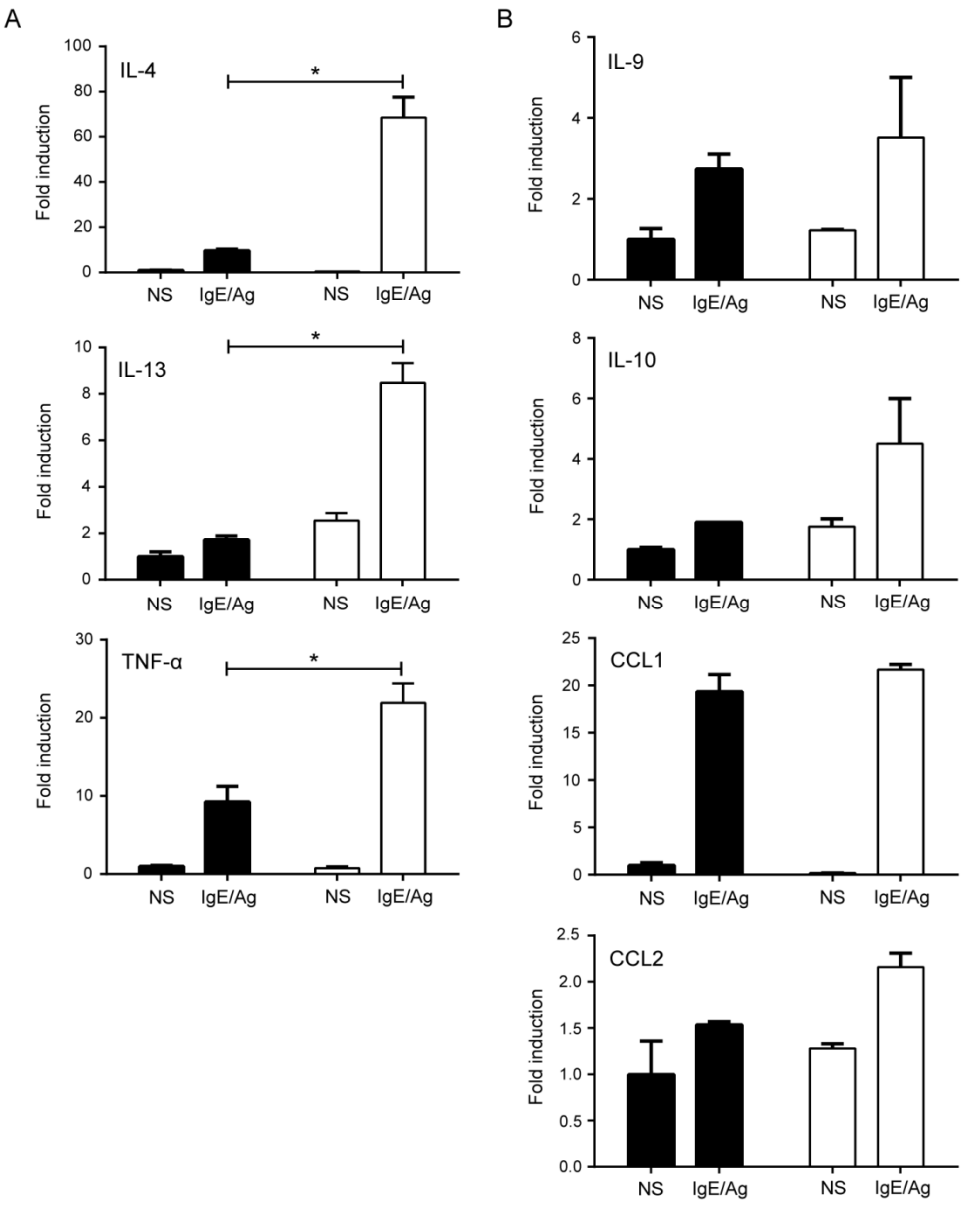


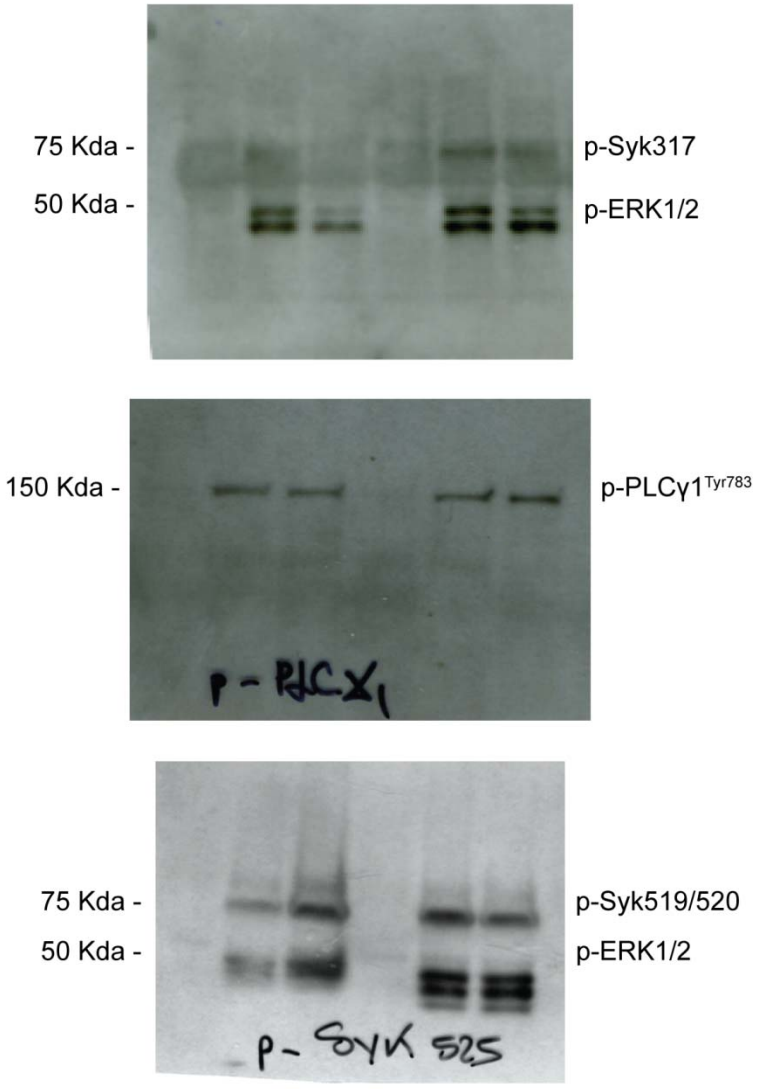
SUPPLEMENTAL FIGURE 1. CD151 deficiency does not affect basal phenotype of BMMCs. Flow cytometry analysis showed no differences in surface expression of FcγRII/III, CD9 or CD63 in BMMCs. For all flow cytometry histograms, WT BMMCs are shown as gray filled histograms with dotted lines and $CD151^{-/-}$ BMMCs as transparent histograms with solid lines. Transparent histograms with dotted lines represent negative wild type controls. Transparent histograms with dash lines represent negative $CD151^{-/-}$ controls. All data are representative of three independent experiments.



SUPPLEMENTAL FIGURE 2. Time-dependent calcium flux under varying stimulant concentrations. Representative experimental data for individual concentrations of stimulant in wildtype and CD151-/- BMMCs. The fluo-4 loaded cells were analyzed by flow cytometry for 25 seconds to establish a pre-stimulation baseline, then stimulated and further analyzed for 30 seconds. The data was graphed on FlowJo 10 as FITC vs. Time. Depicted above the pre- and post-stimulation data is the median of the FITC signal for the collected time period.



SUPPLEMENTAL FIGURE 3. Gene expression of cytokines and chemokines determined by qPCR in BMMCs unprimed or primed with 0.5 µg/ml anti-DNP IgE and then exposed to 0.5 µg/ml DNP-HSA for 5 hours. **A.** Increased IL-4, IL-13 and TNF-α release by $CD151^{-/-}$ BMMCs after IgE/Ag stimulation. **B.** No significant differences in expression of IL-9, IL-10, CCL1 and CCL2 were detected between IgE-activated WT and $CD151^{-/-}$ BMMCs. All data represent at least three experiments. Black columns, WT; white columns, $CD151^{-/-}$. *$p < 0.05$.



SUPPLEMENTAL FIGURE 4. Complete scanned Western Blots from Figure 6 immunoblotting experiments.