

## **Supplementary Figure S1**

Ex vivo induction into CD83 phenotype within the immune organoid.

Naïve B cells with 40LB cells were co-encapsulated with the immune organoids. Left panel shows the histogram overlay of flow cytometry analysis indicating a shift in CD84 signal. Right panel indicates Median fluorescence intensity of CD19+CD83+ cells inside the organoids and comparative controls (\*p<0.05, Analysis of variance (ANOVA), n=3, data represents Mean ± Standard Error)