

## Figure S1

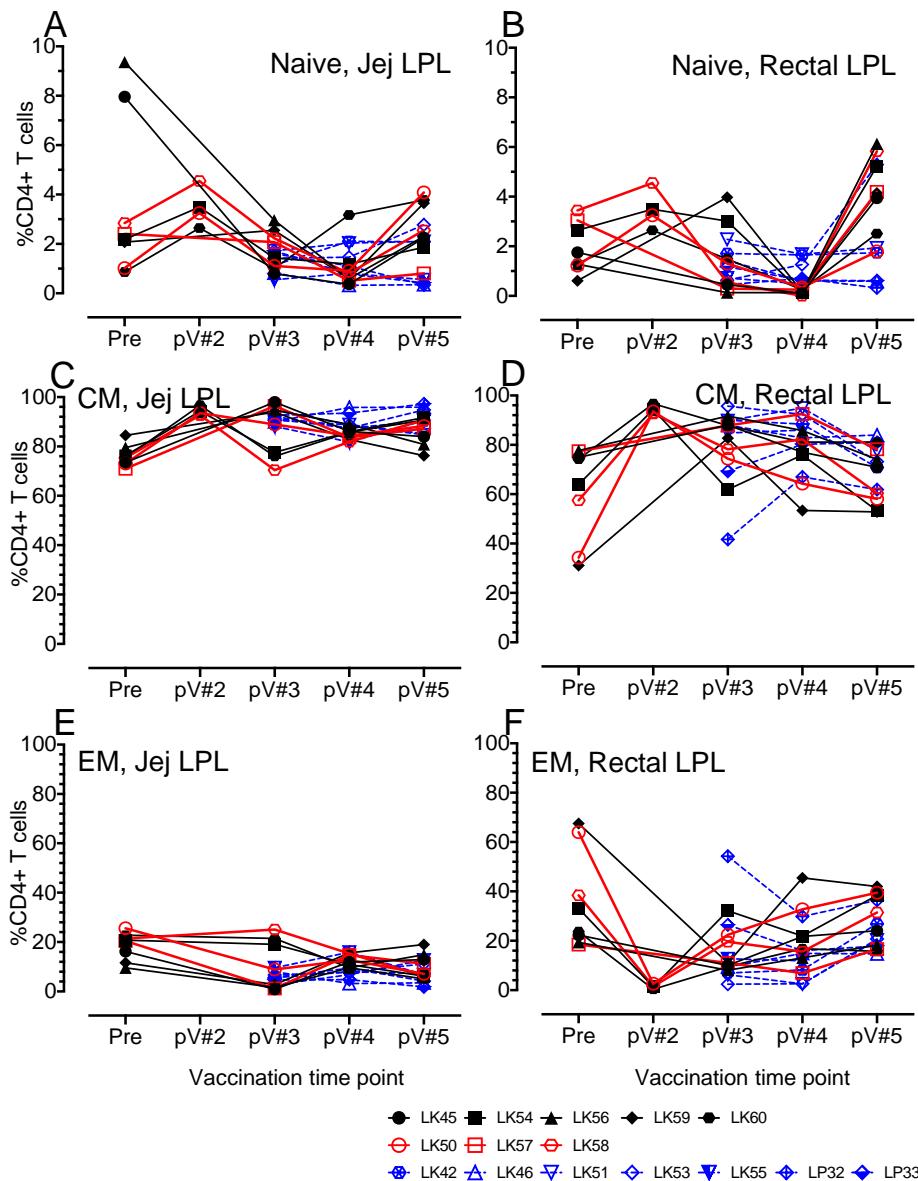


Figure S2

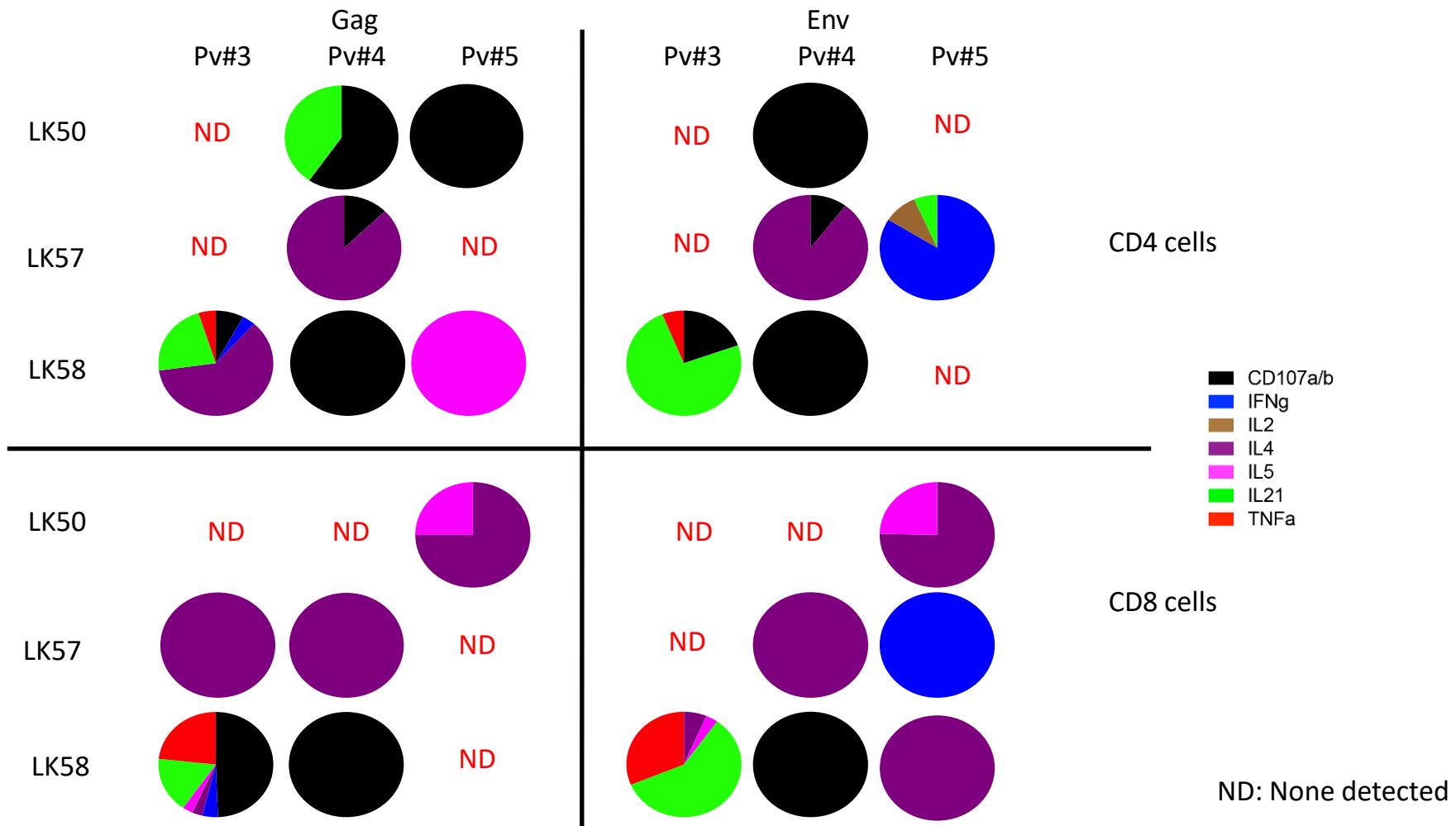
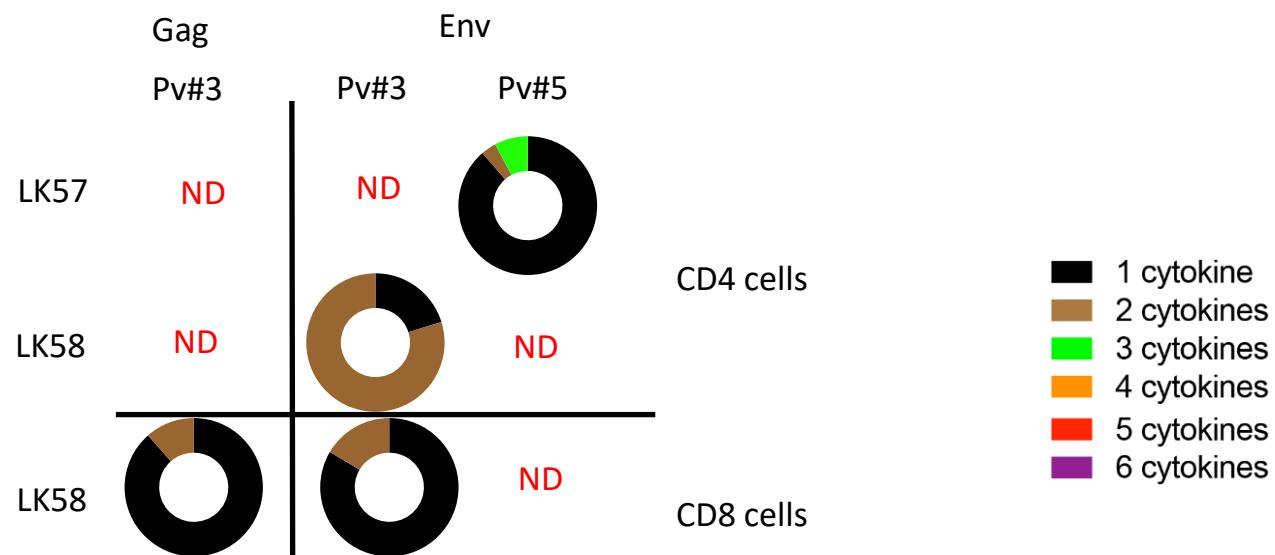


Figure S3



ND: None detected

Figure S4

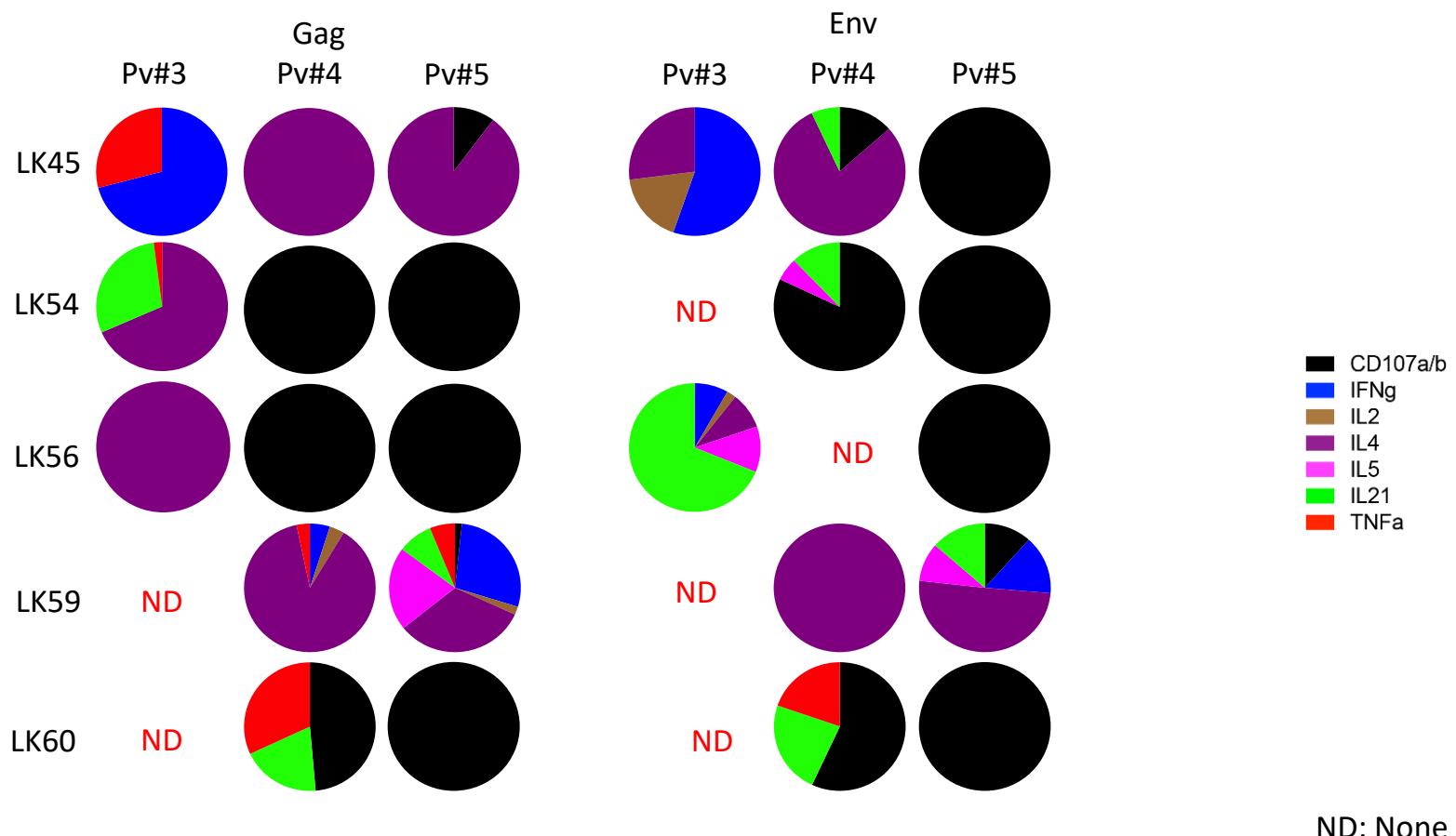


Figure S5

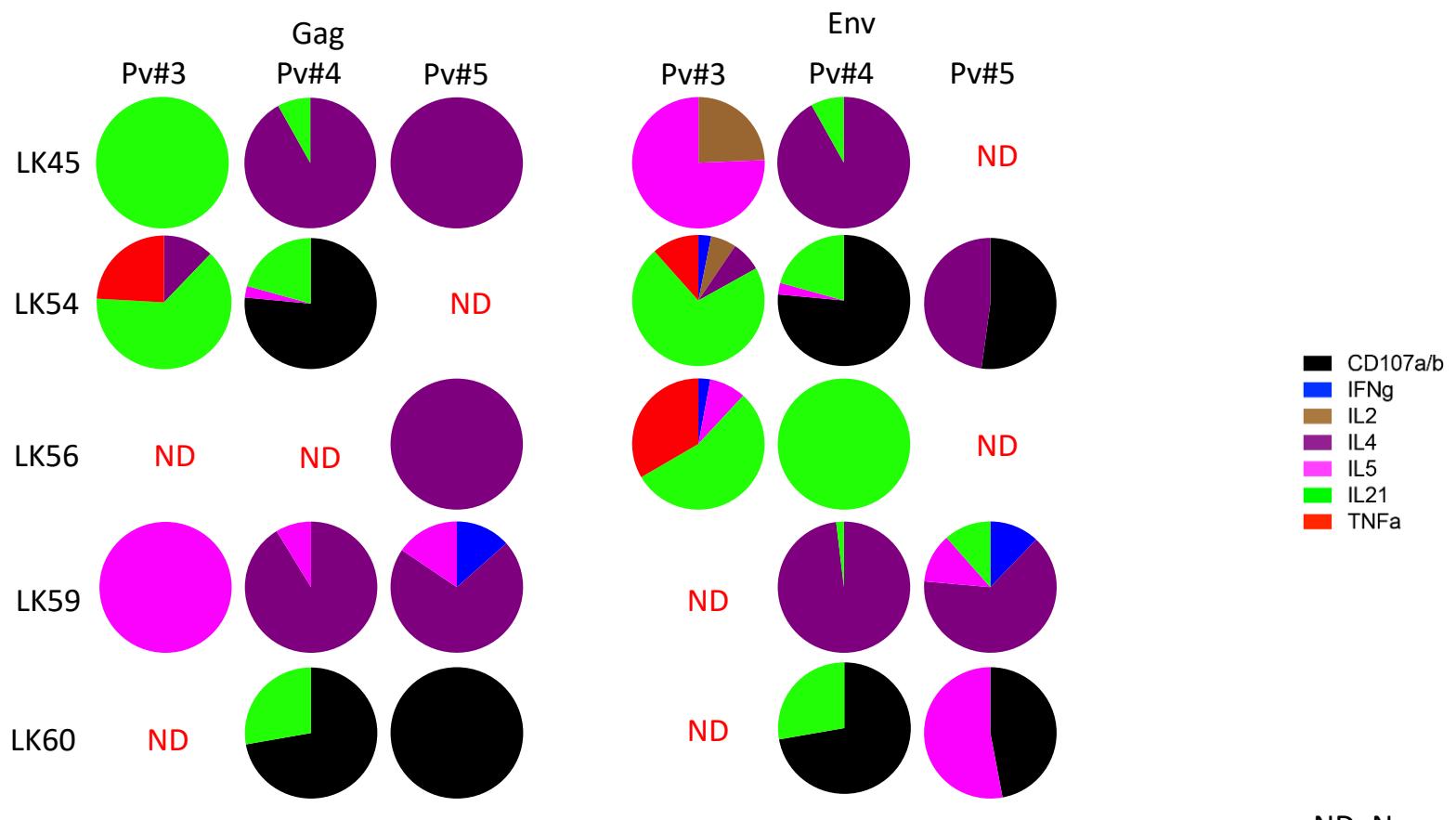
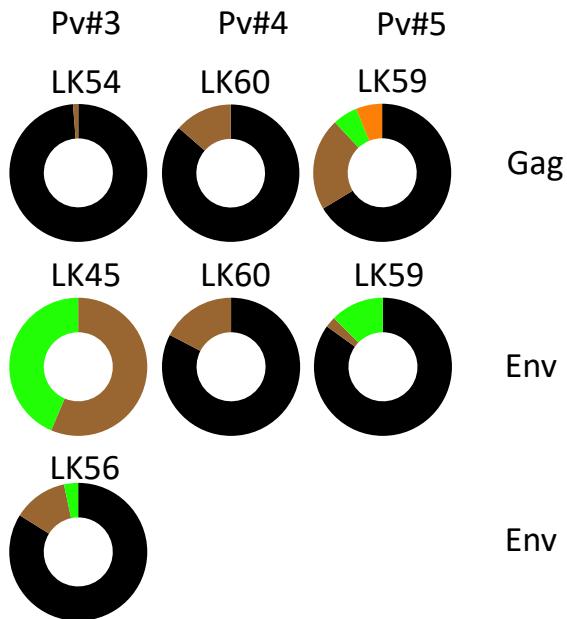


Figure S6

**Polyfunctionality in CD4+ T cell in PBMC**



**Polyfunctionality in CD8+ T cell in PBMC**

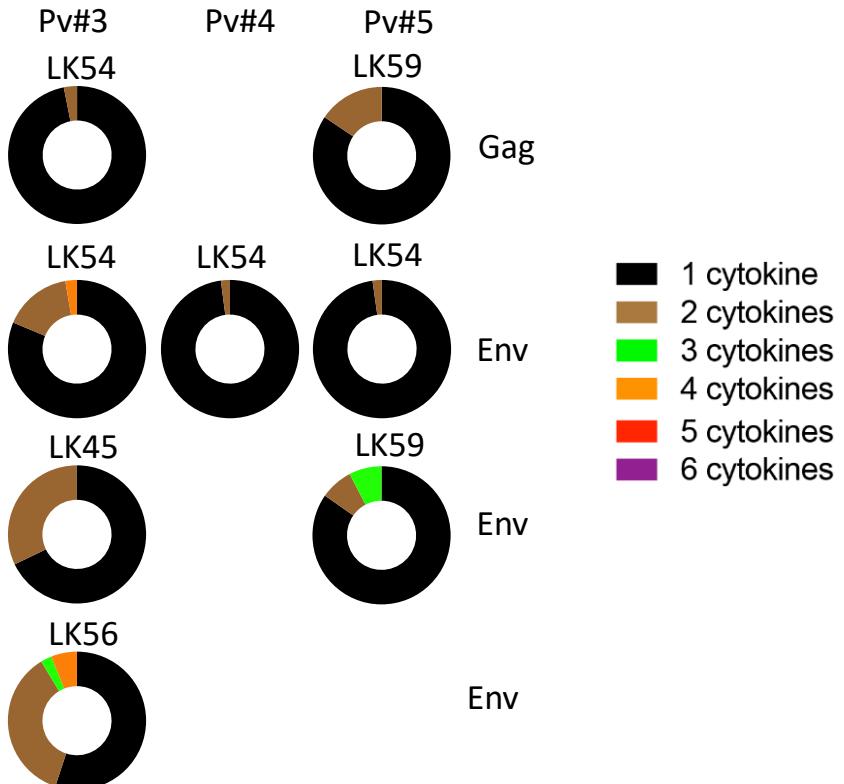
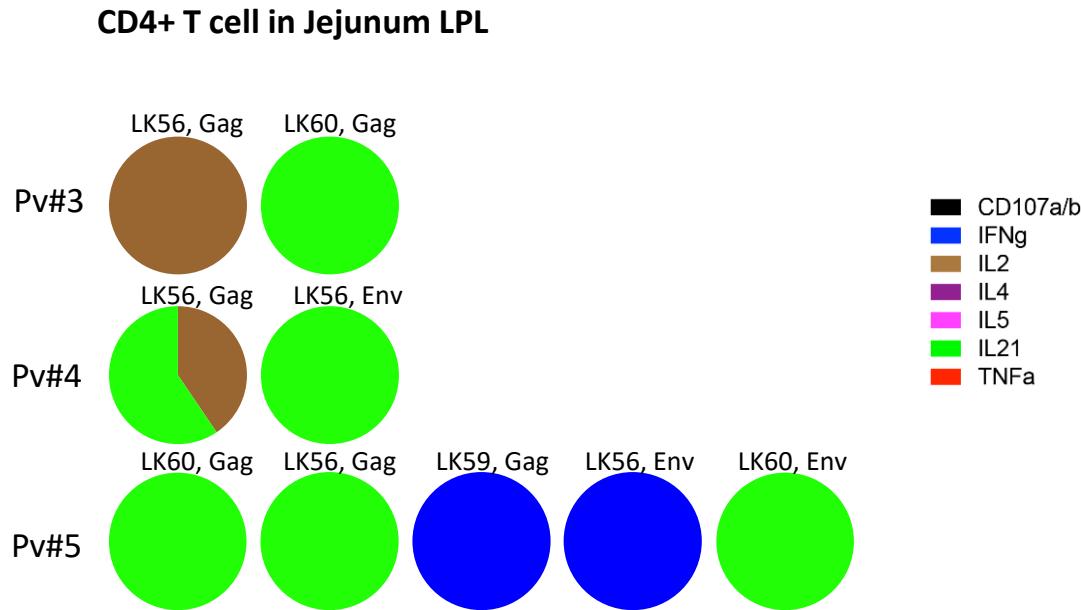


Figure S7



**Note: Assays performed for the following jejunum LPL samples and antigen**

PV#3: LK50 (Gag), LK54 (Gag), LK58 (Gag), LK60 (Gag), LK45 (Gag), LK56 (Gag), LK57 (Gag), LK53 (Gag), LK55 (Gag)

PV#4: LK56 (Gag & Env), LK57 (Env), LK58 (Gag & Env), LK59 (Gag)

PV#5: LK46 (Gag), LK45 (Gag), LK56 (Gag & Env), LK57 (Gag), LK59 (Gag), LK60 (Gag & Env), LP32 (Gag)

Figure S8

### CD8+ T cell in Jejunum LPL



**Note: Assays performed for the following jejunum LPL samples and antigen**

PV#3: LK50 (Gag), LK54 (Gag), LK58 (Gag), LK60 (Gag), LK45 (Gag), LK56 (Gag), LK57 (Gag), LK53 (Gag), LK55 (Gag)

PV#4: LK56 (Gag & Env), LK57 (Env), LK58 (Gag & Env), LK59 (Gag)

PV#5: LK46 (Gag), LK45 (Gag), LK56 (Gag & Env), LK57 (Gag), LK59 (Gag), LK60 (Gag & Env), LP32 (Gag)