**Descriptions of Additional Supplementary Files** 

Supplementary Data 1 Description: Differentially expressed genes across major canonical immune cell types.

Supplementary Data 2 Description: Differentially expressed genes across B cell and CD4+ Tconv clusters.

## Supplementary Data 3

**Description:** Functional enrichment of protein-protein interactions occurring during the differentiation of naïve B cells to GC B cells.

Supplementary Data 4 Description: Raw BCR sequencing data from Adaptive