Supplementary Figure 1. *S. aureus* protease specific IgE in sera of CF patients and healthy adults. Specific serum antibody binding was determined by ELISA. Each data point represents the mean of two technical replicates. Spl-specific serum IgE levels were significantly higher in the two CF patients cohorts (cohort1: n=62, cohort2: n=14) when they were independently compared to healthy controls (n = 46) (A & B). No significant differences were seen in the specific IgE levels when the two CF cohorts were compared to each other; both cohorts had equally strong increased IgE levels (C). Medians (grey bars) with interquartile ranges are shown. ***P < 0.001; ****P < 0.0001; Mann Whitney U test. CF: cystic fibrosis, ns: not significant, OD: optical density.

### Supplementary Table 1A: Antibodies

| Antigen            | Order number | Dye         | Channel | Manufacturer | Clone   | Host | Isotyp |
|--------------------|--------------|-------------|---------|--------------|---------|------|--------|
| CD3                | 130-114-710  | VioBlue     | V450    | Miltenyi     | REA613  | human| IgG1   |
| CD4                | 130-113-792  | VioGreen    | V525    | Miltenyi     | REA623  | human| IgG1   |
| CD183 (CXCR3)      | 130-118-673  | VioBright-FITC | B525 | Miltenyi     | REA232  | human| IgG1   |
| CD194 (CCR4)       | 130-117-525  | APC         | R670    | Miltenyi     | REA279  | human| IgG1   |
| CD196 (CCR6)       | 130-100-382  | PE-Vio770   | YG780   | Miltenyi     | REA190  | human| IgG1   |
| anti-CCR10         | 130-104-868  | PE          | YG582   | Miltenyi     | REA326  | human| IgG1   |
| NIR                | 423105       |             | R780    | Biolegend    |         |      |        |

### Supplementary Table 1B: T cell subsets

| Subset | Markers                  |
|--------|--------------------------|
| Th1    | CD4+CXCR3+               |
| Th2    | CD4+CCR4+CCR6-           |
| Th9    | CD4+CCR4-CCR6+          |
| Th17   | CD4+CCR4+CCR6+          |
| Th22   | CD4+CCR4+CCR6+CCR10+     |