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| Table S2. Flow cytometry data of 12 samples from 11 AITL patients |
| Case | B cells | Naïve | Memory/ Non-switched | Memory/ Switched | DN | DN\_CD21-CD38- | DN\_CD21-CD38+ | ASCs  | Early plasmablasts | Plasmablasts | Plasma cells | IL-21 |
| 　 | (%) | (% B cells) | (% B cells) | (% B cells) | (% B cells) | (% DN cells) | (% DN cells) | (% B cells) | (% ASC cells) | (% ASC cells) | (% ASC cells) | (% CD4) | (% CD8) | (% NK) |
| 1 | 54.1  | 0.0  | 0.0  | 0.0  | 98.0  | 50.8  | 49.2  | 2.0  | 0.0  | 100.0  | 0.0  | NT | NT | NT |
| 2-1 | 5.2  | 24.1  | 45.3  | 2.3  | 18.9  | 100.0  | 0.0  | 9.4  | 80.0  | 20.0  | 0.0  | NT | NT | NT |
| 2-2 | 1.7  | 14.3  | 7.9  | 14.0  | 4.4  | 32.4  | 67.6  | 59.4  | 25.1  | 74.9  | 0.0  | 27.5  | 1.7  | 0.1  |
| 3 | 42.1  | 0.7  | 0.6  | 7.4  | 1.5  | 100.0  | 0.0  | 89.2  | 21.0  | 40.2  | 38.8  | 6.5  | 1.7  | 8.7  |
| 4 | 1.0  | 23.7  | 20.4  | 1.1  | 27.9  | 34.6  | 65.4  | 26.9  | 32.0  | 68.0  | 0.0  | 25.9  | 0.6  | 0.2  |
| 5 | 1.0  | 12.8  | 8.9  | 8.7  | 8.1  | 100.0  | 0.0  | 61.5  | 71.4  | 28.6  | 0.0  | 3.8  | 0.4  | 0.1  |
| 6 | 1.7  | 5.3  | 3.2  | 3.0  | 53.0  | 3.6  | 96.4  | 35.5  | 8.0  | 92.0  | 0.0  | 52.3  | 15.6  | 0.0  |
| 7 | 2.8  | 30.8  | 24.0  | 0.1  | 16.4  | 18.4  | 81.6  | 28.6  | 39.2  | 60.8  | 0.0  | 20.7  | 3.2  | 0.0  |
| 8 | 12.0  | 2.6  | 0.5  | 0.8  | 64.9  | 46.6  | 53.4  | 23.3  | 52.5  | 47.5  | 0.0  | 4.5  | 0.6  | 0.1  |
| 9 | 11.3  | 85.7  | 7.1  | 0.5  | 2.4  | 38.5  | 61.5  | 4.3  | 39.0  | 61.0  | 0.0  | 13.9  | 4.5  | 0.0  |
| 10 | 4.6  | 38.9  | 36.3  | 4.5  | 10.6  | 29.9  | 70.1  | 9.7  | 32.3  | 67.7  | 0.0  | 35.4  | 8.8  | 0.2  |
| 11 | 5.4  | 14.9  | 1.3  | 2.5  | 35.8  | 28.5  | 71.5  | 44.6  | 21.7  | 65.0  | 13.3  | 42.8  | 18.5  | 0.2  |
| ASCs, antibody-secreting cells; DN, double-negative (IgD-CD27-); NT, not tested |