

**Supplementary Table S1.** Reagents used for the deep immune phenotyping with full-spectrum flow cytometry.

| Marker        | Clone      | Per test (μl) | Lot number                | Fluorochrome     |
|---------------|------------|---------------|---------------------------|------------------|
| Viability     |            |               |                           | Zombie NIR       |
| CD45          | HI130      | 2             | B331250                   | PerCP            |
| CD3           | SK7        | 5             | B330335, B370758          | BV510            |
| CD4           | SK3        | 2             | F-050721-01               | cFluor® B532     |
| CD8           | SK1        | 5             | n/a                       | cFluor® V610     |
| CD25          | BC96       | 2             | B354215                   | PE-Cy5           |
| TCRγδ         | B1.1       | 1.2           | 2311939, 2527383          | PerCP-eFluor 710 |
| CD14          | 63D3       | 2.5           | B313132, B329322          | Spark Blue 550   |
| CD16          | 3G8        | 0.6           | 1099493                   | BUV496           |
| CD11c         | B-ly6      | 2.5           | 1148605, 2111332          | BUV661           |
| CD11b         | ICRF44     | 5             | B319299                   | PerCP-Cy5.5      |
| CD19          | HIB19      | 1.2           | B324542                   | Spark NIR 685    |
| CD20          | HI47       | 5             | 2375623, 2532779          | Pacific Orange   |
| CD24          | SN3        | 5             | 2363760, 2412844          | PE-eFluor 610    |
| IgD           | IA6-2      | 0.6           | 1195093                   | BV480            |
| IgG           | G18.145    | 5             | 300956, 1292726, 2052950  | BV605            |
| IgM           | MHM-88     | 2.5           | B316253, B334624          | BV570            |
| CD1c          | L161       | 5             | B293062                   | Alexa Fluor 647  |
| CD123 (IL3R)  | 6H6        | 2.5           | 2305276                   | Super Bright 436 |
| CD56          | NCAM16.2   | 1.2           | 1048151                   | BUV737           |
| CD197 (CCR7)  | G043H7     | 5             | B332066, B361376          | BV421            |
| CD27          | O323       | 2.5           | 2288534, 2443439          | APC              |
| CD28          | CD28.2     | 2.5           | B324232                   | BV650            |
| CD45RA        | 5H9        | 1.2           | 1210597                   | BUV395           |
| CD127         | HIL-7R-M21 | 6             | 1208740, 1341730, 2292425 | APC-R700         |
| CD196 (CCR6)  | g034e3     | 1.25          | B309645, B369286          | BV711            |
| CD195 (CCR5)  | 2D7/CCR5   | 2.5           | 1210625, 3051963          | BUV563           |
| CD185 (CXCR5) | RF8B2      | 1.2           | 1210649                   | BV750            |
| CD183 (CXCR3) | G025H7     | 5             | B354664                   | PE               |
| HLA DR        | L243       | 2.5           | 2406121                   | APC-eFluor 780   |
| CD38          | HIT2       | 3             | B325373                   | APC/Fire 810     |
| CD57          | NK-1       | 0.2           | 1273657                   | BB515            |
| CD161 (KLRB1) | HP-3G10    | 5             | 2480316                   | eFluor 450       |
| CD279 (PD1)   | EH12.2H7   | 5             | B318729, B373725          | BV785            |
| CD69          | FN50       | 5             | B350377                   | PE-Cy7           |
| CD103         | Ber-ACT8   | 0.5           | 2236472                   | BUV805           |