**Supplementary Table 1. List of antibodies used for flow cytometry analyses and in vivo blocking or cell depletion.**

| Reagent/Antibody Target | Fluorochrome | Clone | Purchased from |
|-------------------------|--------------|-------|----------------|
| **FACS**                |              |       |                |
| anti-rat                | biotin       | Polyclonal (Goat) | Invitrogen |
| B220                    | PE, APC, Cy7 | RA3-6B2 | eBiosciences |
| BCL6                    | PE, APC, Cy7 | K112-91 | BD Biosciences |
| CCR5                    | PerCP-eF710  | 7AA4  | Invitrogen     |
| CCR7 (CD197)            | BV786        | 4B12  | BD Biosciences |
| CD115                   | PE-Cy5       | AF598  | eBiosciences   |
| CD11a                   | APC, PE, PerCP-eF710 | ML1:4, ML1:7 | eBiosciences, BioLegend |
| CD11b                   | BB700, PerCP-Cy5.5 | M1:70 | BD Pharmingen |
| CD11c                   | biotin, APC  | HL3   | BD Pharmingen |
| CD122 (IL-2Ra)          | BV406        | TM4-1 | BD Biosciences |
| CD127 (IL-7Ra)          | BV421        | A7R34  | BD Biosciences |
| CD138                   | PE           | 2B8-1.2 | Biolegend     |
| CD169                   | PE           | SER-4 | eBiosciences   |
| CD19                    | AF700, PerCP-Cy5.5 | D1D3 | BD Pharmingen |
| CD27                    | BV650        | LG3A10 | BD Biosciences |
| CD3                     | BV510, FITC, PerCP-Cy5.5, PE-Cy7, BV750 | 14-2C11 or 17A2 | eBiosciences, BD Biosciences |
| CD4                     | PE, Alexa 700, PE-Cy7, PerCP-Cy5.5 | RM4-5 | eBiosciences, BD Pharmingen, BioLegend |
| CD44                    | SB436        | IMT   | eBiosciences   |
| CD45                    | Alexa 700, APC | SF11  | eBiosciences   |
| CD49d                   | PE           | R1-2  | eBiosciences   |
| CD62L                   | BV570        | MEL-14 | BioLegend     |
| CD8a                    | FITC, PE, PerCP-Cy5.5, APC, Alexa 700, BV510, PE-Cy7, AF532 | 53-6-7 | eBiosciences |
| CD95                    | FITC, BHS15  | Jo2   | BD Biosciences |
| CX3CR1                  | BV510        | SA011F11 | BioLegend      |
| CXCR3                   | PerCP-Cy5.5  | CXC3R3-173 | BioLegend |
| CXCR5                   | unconjugated, PE-Cy7 | 2G8 | BD Biosciences |
| EOMES                   | eFluor660    | Dan1Imag | eBiosciences |
| F4/80                   | BV421        | BMR   | BioLegend      |
| FoxP3                   | eFluor450, AF488 | FJK165, FJK-16s | eBiosciences |
| GL7                     | eGF50        | GL7   | eBiosciences   |
| Granzyme B              | APC          | MHGB005 | Invitrogen |
| ICAM1                   | PE           | 3E2   | BD Biosciences |
| ICOS                    | APC, PerCP-eF710, PE-Cy7 | C398.4A, 15F9 | eBiosciences |
| IFNγ                    | AF700, PE-Cy7 | XMGl2 | eBiosciences |
| IgD                     | PerCP-Cy5.5  | 11-26c-2a | BD Pharmingen |
| IgG                     | AF700        | Poly4053 | BioLegend |
| IgM                     | APC          | 11-41 | eBiosciences   |
| IL-2                    | eFluor450    | JES6-53H | eBiosciences |
| K67                     | FITC, eGF50, PE-Cy5 | Scl015 | eBiosciences |
| KLRG1                   | BV605        | 2F1   | BD Biosciences |
| LAM3                    | APC          | CB91T  | BD Pharmingen |
| Ly6C                    | AF700        | AL-21 | BD Pharmingen |
| Ly6G                    | FITC         | 1A8   | BD Biosciences |
| MHCII                   | PE-Cy7       | M5114.15.2 | BioLegend |
| PDI                     | PE, FITC, BV737 | J43, RPM1-30 | BD Biosciences, eBiosciences |
| PNA                     | FITC         | Sigma-Aldrich |
| SCA-1 (Ly6A/E)          | BUV395       | DT    | BD Biosciences |
| Streptavidin            | BUV661, APC-Cy7, PE-Cy7 | eBiosciences, BD Biosciences |
| Tbet                     | BV711        | 4B10  | BioLegend     |
| TCF3                    | AF488        | 812145 | R&D           |
| TNEα                    | PerCP-Cy5.5  | MP6-X22 | BD Biosciences |
| **In vivo depletion antibody** |            |       |                |
| anti-CD4                | OKT15        |       |                |
| anti-CD8b               | H55          |       |                |
| **In vivo blocking antibody** |          |       |                |
| polyclonal Rat IgG      |              |       |                |
| anti-LAG3               | N/A          | BioXcell |
| anti-PD-L1              |              | BioXcell |
| anti-PD-L1              | 105962       | BioXcell |