### Supplementary Table-1 List of monoclonal antibodies used in flow cytometry studies

| Primary antibodies | Fluorocrome | Supplier | Reference |
|--------------------|-------------|----------|-----------|
| CD45               | BV510       | Biolegend| 30-F11    |
| CD45               | BV421       | BD Bioscience | 30-F11    |
| CD45               | FITC        | Biolegend| 30-F11    |
| CD45               | PE Cy7      | Biolegend| 30-F11    |
| CD45               | PE Cy5      | Biolegend| 30-F11    |
| CD11b              | BV421       | Biolegend| M1/70     |
| CD11b              | APC Cy7     | BD Bioscience | M1/70     |
| F4/80              | APC         | Biolegend| BM8       |
| F4/80              | Percp 5.5   | Biolegend| BM8       |
| CD11c              | BV421       | Biolegend| N418      |
| CD11c              | PE Cy7      | BD Bioscience | HL3       |
| CD11c              | APC         | eBioscience| N418      |
| CD80               | Percp 5.5   | BD Bioscience | 16.10A1  |
| CD86               | PE          | BD Bioscience | GL1       |
| CD40               | FITC        | BD Bioscience | 3.23      |
| MHC II             | APC Cy7     | Biolegend| M5/114.15.2 |
| CD4                | FITC        | BD Bioscience | GK1.5     |
| CD4                | APC Cy7     | Biolegend| GK1.5     |
| CD8                | APC Cy7     | Biolegend| 53-6.7    |
| IL-4               | PE Cy7      | BD Bioscience | 11B11     |
| IL-10              | PercP 5.5   | eBioscience| VC10-4B9  |
| IL-12              | FITC        | BD Bioscience | C15.6     |
| IL-17              | BV510       | BD Bioscience | TC11-18H10 |
| IL-22              | APC         | Biolegend| Poly5164  |
| IL-22              | PercP 5.5   | Biolegend| Poly5165  |
| IL-6               | APC         | BD Bioscience | MP5-20F3  |
| IL1-β              | eFluor780   | eBioscience| NJTEN3    |
| TNF-α              | PE Cy7      | BD Bioscience | MP6-X22   |
| TGF-β              | PE Cy7      | R&D       | 1D11      |
| FoxP3              | Alexa Fluor 488 | BD Bioscience | MF23   |
| FoxP3              | PE          | eBioscience| NRRF-30   |
| GATA3              | Alexa Fluor 488 | Biolegend | 16E10A23 |
| RORc               | APC         | eBioscience| B2D       |
| IFN-γ              | BV421       | Biolegend| XGM1.2    |
| Tbet               | PE          | Biolegend| 4B10      |
| AhR                | PE          | eBioscience| 4MEJJ     |
| AhR                | eFluor660   | eBioscience| FF3399    |
| CD25               | eFluor 450  | eBioscience| eBio3C7   |
| CTLA-4             | BV421?      | Biolegend| VC10-4B9  |
| IDO-1              | FITC        | R&D       | 700838    |
| Lineage cocktail   | BV421       | Biolegend| 17A2; RB6-8C5; RA3-6B2; Ter-119; M1/70 |
| CD127              | BV510       | Biolegend| A7.R34    |
| NK1.1              | BV510       | Biolegend| PK136     |
| NPK46              | PE Cy7      | Biolegend| 29A1.4    |
| Eomes              | PE          | eBioscience| Dan11mag  |
| CD317              | PE          | Biolegend| 129C1     |
| CD16/32            | APC         | Biolegend| 93        |