**Supplementary data**

**Table S1: List of monoclonal antibodies used for flow cytometry**

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| --- | --- | --- | --- |
| Antigen | Fluorochrome | Clone | Producer |
| CD8a | PE-DyLight 594 | MEM31 | Exbio |
| CD19 | FITC | LT19 | Exbio |
| CD21 | PerCP-Cy 5.5 | Bu32 | Biolegend |
| CD27 | APC | M-T271 | Biolegend |
| CD38 | Alexa Fluor 700 | HB-7 | Biolegend |
| CD40 | Brilliant Violet 421 | 5C3 | Biolegend |
| CD70 | PE | Ki-24 | BD Biosciences |
| CD86 | PE | HA5.2B7 | Immunotech |
| HLA-ABC | Alexa Fluor 700 | W6/32 | Biolegend |
| HLA-DR | Brilliant Violet 421 | L243 | Biolegend |
| IgD | Brilliant Violet 421 | IA6-2 | Biolegend |
| IgM | PerCP-Cy 5.5 | MHM-88 | Biolegend |
| IL-10 | PE | JES3-9D7 | Biolegend |
| Ki-67 | Pe-Cy 7 | Ki-67 | Biolegend |