**S2 Table**

**Monoclonal antibody and fluorochrome panels used in combined assays**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tube** | **FITC** | **PE** | **PerCP** | **Pe-Cy7** | **APC/ AF-647\*** | **APC-H7** | **BV421/V450\*\*** | **V500** |
| **HSPCs**  | **1a** | DCF | CD123 | CD34 | CD117 | CD38 | CD45RA | CD90 | CD45 |
|  | **1b** | DCF | CD71 | CD34 | CD117 | CD38 | CD45RA | CD33/ CD235a | CD45 |
| **Cell-cycle** | **2a** | DCF | CD38 | CD34 | CD117 | ki67\* | CD45RA | BCL2**\*\*** | CD45 |
|  | **2b** | CD38 | CD123 | CD34 | CD117 | ki67\* | CD45RA | BCL2**\*\*** | CD45 |
| **Viability** | **3a** | Annexin V | CD123 | 7-AAD | CD117 | CD38  | CD45RA  | CD34  | CD45 |
|  | **3b** | DCF | Annexin V | CD34 | CD117 | CD38 | CD45RA | CD123 | CD45 |

\*anti-ki67 conjugated to Alexafluor-647 and \*\* anti-BCL2 conjugated to Horizon V450

Note - colour matched isotype controls for ki67 and BCL2 were used simultaneously in a separate tube

Tubes 1a, 2a, 3a was performed on all samples and additional tubes 1b, 2b, 3b on selected samples where sufficient material was available