**Table S1.** List of antibodies used for immunostaining and flow cytometry experiments

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| --- | --- | --- | --- |
| **Primary antibodies for flow cytometry** | **Clone** | **Source** | **Catalog number** |
| CD13-PE | WM15 | BD Pharmingen | 555394 |
| CD13-PE-Cy7 | WM15 | BD Pharmingen | 561599 |
| CD34-FITC | 581/CD34 | BD Pharmingen | 555821 |
| CD44-FITC | IM7 | eBioscience | 11-0441-82 |
| CD49f (Integrin α6)-FITC | GoH3 | BD Pharmingen | 555735 |
| CD56-PE-Cy7 | B159 | BD Pharmingen | 557747 |
| CD117-APC | YB5.B8 | BD Pharmingen | 550412 |
| CD133/1-APC | AC133 | Miltenyi Biotec | 130-090-826 |
| CD184 (CXCR4)-PE | 12G5 | eBioscience | 12-9999-71 |
| CD326-Alexa Fluor 488 | 9C4 | Biolegend | 324210 |
|  |  |  |  |  |
| **Primary antibodies for immunostaining** | **Dilution** | **Source** | **Catalog number** |
| α-fetoprotein (AFP) (C3) | 1/600 | Sigma | A8452 |
| α-fetoprotein (AFP) (C3) | 1/600 | Dako | A0008 |
| Albumin | 1/1000 | Dako | A000102  |
| β-catenin | 1/1000 | BD Pharmingen | 610154 |
| Brachyury (T) (C-19) | 1/250 | Santa Cruz | sc-17745 |
| Cytokeratin-7 (CK7)(OV-TL 12/30) | 1/1000 | Dako | M7018 |
| F-actin(Acti-stain 488 phalloidin) | 1/150 | Cytoskeleton, Inc. | PHDG1 |
| HNF4α (C-19) | 1/600 | Santa Cruz | sc-6556 |
| HNF3β (M-20) | 1/300 | Santa Cruz | sc-6554 |
| Integrin α6 (CD49f) (GoH3) | 1/500 | BD Pharmingen | 555734 |
| Ki67 | 1/500 | Abcam | ab15580 |
| Oct-3/4 (C-10) | 1/100 | Santa Cruz | sc-5279 |
| Protein kinase ζ (C-20) | 1/500 | Santa Cruz | sc-216 |
|  |  |  |  |  |
| **Secondary antibodies** | **Dilution** | **Source** | **Catalog number** |
| anti-mouse/Alexa Fluor 488 | 1/1000 | Invitrogen | A21202 |
| anti-rabbit/Alexa Fluor 488 | 1/1000 | Invitrogen | A21206 |
| anti-rat/Alexa Fluor 488 | 1/1000 | Invitrogen | A21208 |
| anti-goat/Alexa Fluor 488 | 1/1000 | Invitrogen | A11055 |
| anti-goat/Alexa Fluor 546 | 1/1000 | Invitrogen | A11056 |
| anti-mouse/Alexa Fluor 555 | 1/1000 | Invitrogen | A31570 |
| anti-rabbit/Alexa Fluor 555 | 1/1000 | Invitrogen | A31572 |
| anti-rabbit/Alexa Fluor 568 | 1/1000 | Invitrogen | A10042 |