**Table S4. Antibodies used for IF analysis**

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| **Primary Antibodies**  |
| **Antibody** | **Host** | **Dilution** | **Supplier** |
| CD31/PECAM1 (MEC13.3) | Rat | 1:2 | Gift from E.Dejana |
| GFP | Chicken | 1:500 | Abcam |
| p-SMAD1/5/8 (D5B10) | Rabbit | 1:800 | Cell Signaling |
| Osterix | Rabbit | 1:300 | Abcam |
| Sox9 | Rabbit | 1:300 | Millipore |
| Runx2 | Rabbit | 1:1600 | Cell Signaling |
| Ki67 | Rabbit | 1:100 | Biocare Medical |
| Osteocalcin | Rabbit | 1:300 | Abcam |
| F4/80 | Rat | 1:300 | Santa Cruz |
| CD163 | Rabbit | 1:200 | Santa Cruz |
| CD206 | Rat | 1:100 | Bio-Rad |
| **Secondary Antibodies**  |
| **Antibody** | **Host** | **Dilution** | **Supplier** |
| Anti-Rabbit Alexa 488  | Donkey | 1:500 | Molecular Probes |
| Anti-Rat Alexa 546 | Goat | 1:500 | Molecular Probes |
| Anti-Rat Alexa 647 | Chicken | 1:500 | Molecular Probes |
| Anti-Mouse Alexa 546 | Goat | 1:500 | Molecular Probes |
| Anti-Chicken Alexa 488 | Goat | 1:500 | Molecular Probes |