**Table 1. Antibodies**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Dilution | Supplier | Cat. No. |
| Oct4 | 1:500 | Cell Signaling Technologies | 2750S |
| Sox2 | 1:500 | Millipore | Ab5603 |
| PAX6 | 1:500 | BoiLegend | 901301 |
| Tbr1 | 1:500 | Abcam? | 31940 |
| CHAT | 1:100 | Millipore | AB143 |
| Map2 | 1:500 | Sigma | M9942 |
| PSD95 | 1:500 | BioLegend | 810401 |
| Synapsin-1 | 1:500 | BioLegend | 515200 |
| EEA1 | 1:100 | Cell Signaling Technology | 3288S |
| LAMP-2 | 1:100 | Santa Cruz | SC-5571 |
| Calnexin | 1:100 | Cell Signaling Technology | 2679S |
| LC3 | 1:200 | Cell Signaling Technology | 2775S |
| BrdU | 1:100 | Santa Cruz Biotechnology | SC-56258 |
| RyR-2 | 1:200 | Invitrogen | MA3-925 |