

1 Supplementary Table 2: Battery of primary antibodies used in this work

| <i>Protein</i>       | <i>Antibody</i><br>(Reference & dilution)                                                      | <i>Expression pattern</i><br>(Murine hippocampus)                                                | <i>Expression pattern</i><br>(Human hippocampus)                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Astn 2</i>        | anti-Astn2 ab121906 rabbit polyclonal 1/10 – 1/50                                              | mRNA differential expression along longitudinal axis <sup>1</sup>                                | Not found                                                                                                                                                                 |
| <i>Nr3c2</i>         | anti- mineralocorticoid receptor, Nr3c2 mouse monoclonal H10E4C9F 1/500                        | mRNA differential expression along longitudinal axis <sup>1</sup>                                | Dense fiber plexus in Deep pyramidal layers / <i>stratum oriens</i> . No pattern overall.                                                                                 |
| <i>Wfs-1</i>         | anti-Wfs1 rabbit polyclonal PA5-6064 1/1750                                                    | mRNA expression in dorsal murine hippocampus <sup>1</sup>                                        | Strong expression in non-pyramidal hilar cells in both hippocampal body and posterior hippocampus. Dense fibrillar plexus around cellular layers of posterior hippocampus |
| <i>Coll11A1</i>      | anti-Coll11A1 rabbit polyclonal LS-C352032 1/100                                               | mRNA differential expression along longitudinal axis and different <i>laminae</i> <sup>2</sup>   | Scattered hilar cells<br>Scattered fibers in pyramidal layers Subicular pyramidal cells. No pattern overall.                                                              |
| <i>Neurotensin</i>   | anti-neurotensin mouse monoclonal SAB4200703 1/500                                             | Subicular layers 1-3 in dorsal murine hippocampus <sup>1,2</sup>                                 | Subicular pyramidal cells, with no laminar or longitudinal pattern                                                                                                        |
| <i>Dlk1</i>          | anti-Dlk1 mouse monoclonal 3A10 1/100- 1/200                                                   | Subicular layer 2 <sup>2</sup>                                                                   | Not found                                                                                                                                                                 |
| <i>Coch1</i>         | anti-Coch1 mouse monoclonal ab195959 1/50- 1/200                                               | mRNA differential expression along longitudinal axis and different <i>laminae</i> <sup>1,2</sup> | Scattered non-pyramidal cells with no identifiable pattern                                                                                                                |
| <i>Dclk3</i>         | anti-Dclk3 ab113367 rabbit polyclonal 1/150                                                    | Pyramidal cells in dorsal CA1 fields <sup>2</sup>                                                | Widespread cytoplasmic reactivity in pyramidal cells, stronger in CA3 cells. No identifiable pattern                                                                      |
| <b><i>Rph3a</i></b>  | <b>anti-Rph3a rabbit polyclonal HPA002475 Sigma-Aldrich® 1/500</b>                             | <b>Laminar patterns in ventral pyramidal layers<sup>2</sup></b>                                  | <b>See Results</b>                                                                                                                                                        |
| <i>Amigo1</i>        | anti-Amigo1 rabbit polyclonal HPA046152 1/1000                                                 | CA2 <sup>1</sup>                                                                                 | Widespread nuclear staining of pyramidal cells, with neither field, nor laminar specificity.                                                                              |
| <i>Itga7</i>         | anti-Itga7 r mouse monoclonal ab195959 1/500                                                   | Laminar pattern in pyramidal cell layers <sup>1,2</sup>                                          | Scattered fibers with no pattern                                                                                                                                          |
| <b><i>PCP4</i></b>   | <b>anti-PCP4 rabbit polyclonal HPA005792 Sigma-Aldrich® 1/750</b>                              | <b>CA2 and subicular pyramidal cells<sup>3</sup></b>                                             | <b>See Results</b>                                                                                                                                                        |
| <b><i>ChrA</i></b>   | <b>Mouse monoclonal LK2H10 Cell Marque® 1/100</b>                                              | <b>CA (mostly CA3) pyramidal neurons, Neuropil * (WE-14, see discussion)<sup>4</sup></b>         | <b>See Results</b>                                                                                                                                                        |
| <b><i>RGS-14</i></b> | <b>Anti-RGS-14 Rabbit polyclonal 16258-1-AP Proteintech 1/150</b>                              | <b>CA2 and <i>fasciola cinerea</i>, CA1 (sparse) *<sup>5</sup></b>                               | <b>See Results</b>                                                                                                                                                        |
| <i>Parvalbumin</i>   | Anti-Parvalbumin mouse monoclonal PV235 1/400<br>Anti-Parvalbumin rabbit polyclonal PV27 1/400 | **                                                                                               | See Results & Supplementary Figure 1                                                                                                                                      |

2 **Supplementary Table 2 Legend:** Bold indicates patterned expression in human  
3 hippocampus. \* indicates the utilization of a different batch compared to the one in which  
4 the mentioned pattern was described. \*\*: antibodies used only in immunofluorescence  
5 experiments in selected sections, not for regionalization (1: Fanselow and Dong, 2010; 2:  
6 Bienkowski et al, 2018; 3: Renelt et al 2014; 4: Munoz, 1990; 5: Evans et al, 2014).