

Supplementary file

IL-1R/C3aR signaling regulates synaptic pruning in the prefrontal cortex of depression

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Running title: IL-1R/C3aR mediates synaptic pruning in depression

Table 1 Primary antibodies information

| Antibody | Host | Company | Lot Number | Application | Dilution |
|----------------------|-------------|----------------|-------------------|--------------------|---------------------------|
| Iba1 | Goat | Abcam | ab5076 | IF | 1:200 |
| C3 | Rabbit | Abcam | ab97462 | IF WB | 1:150(IF); 1:1000 (WB) |
| C3aR | Mouse | Santa Cruz | sc133172 | IF | 1:150(IF); 1:1000 (WB) |
| PSD95 | Rabbit | Abcam | ab18258 | IF WB | 1:100(IF); 1:1000 (WB) |
| PSD95 | Mouse | CST | 36233S | IF | 1:100 |
| Synaptophysin | Rabbit | CST | 36406 | IF WB | 1:100(IF); 1:1000 (WB) |
| Synaptophysin | Mouse | Santa Cruz | sc17750 | IF | 1:100 |
| pSTAT3 | Rabbit | Abcam | ab76315 | IF WB | 1:100(IF); 1:1000 (WB) |
| STAT3 | Mouse | Abcam | 9139S | IF WB | 1:100(IF); 1:1000 (WB) |
| APT2 | Mouse | Santa Cruz | sc515061 | IF WB | 1:100(IF); 1:1000 (WB) |
| DHHC7 | Rabbit | ThermoFisher | PA5-63760 | IF WB | 1:100(IF); 1:1000 (WB) |
| IL-1R1 | Mouse | Santa Cruz | sc-393998 | IF WB | 1:100(IF); 1:1000 (WB) |
| p-NF- κ B p65 | Rabbit | Abcam | ab86299 | IF WB | 1:100(IF); 1:1000 (WB) |
| NF- κ B p65 | Rabbit | Abcam | ab16502 | WB | 1:1000 |
| GFAP | Mouse | Santa Cruz | sc-33673 | IF | 1:150 |
| GFAP | Rabbit | Abcam | ab207165 | IF | 1:200 |
| NeuN | Rat | Abcam | ab279297 | IF | 1:200 |
| β -actin | Rabbit | Sigma | A3854 | WB | 1:5000 |

Table S2 Primers used in PCR

| Gene | Forward | Reverse |
|---------------|-----------------------------|------------------------------|
| IL-1 β | 5'-TGCCACCTTTTGACAGTGATG-3' | 5'-TGATGTGCTGCTGCGAGATT-3' |
| IL-6 | 5'-CCCCAATTTCCAATGCTCTCC-3' | 5'-CGCACTAGGTTTGCCGAGTA-3' |
| TNF- α | 5'-GATCGGTCCCCAAAGGGATG-3' | 5'-CCACTTGGTGGTTTGTGAGTG-3' |
| GAPDH | 5'-TGAGGCCGGTGCTGAGTATGT-3' | 5'-CAGTCTTCTGGGTGGCAGTGAT-3' |

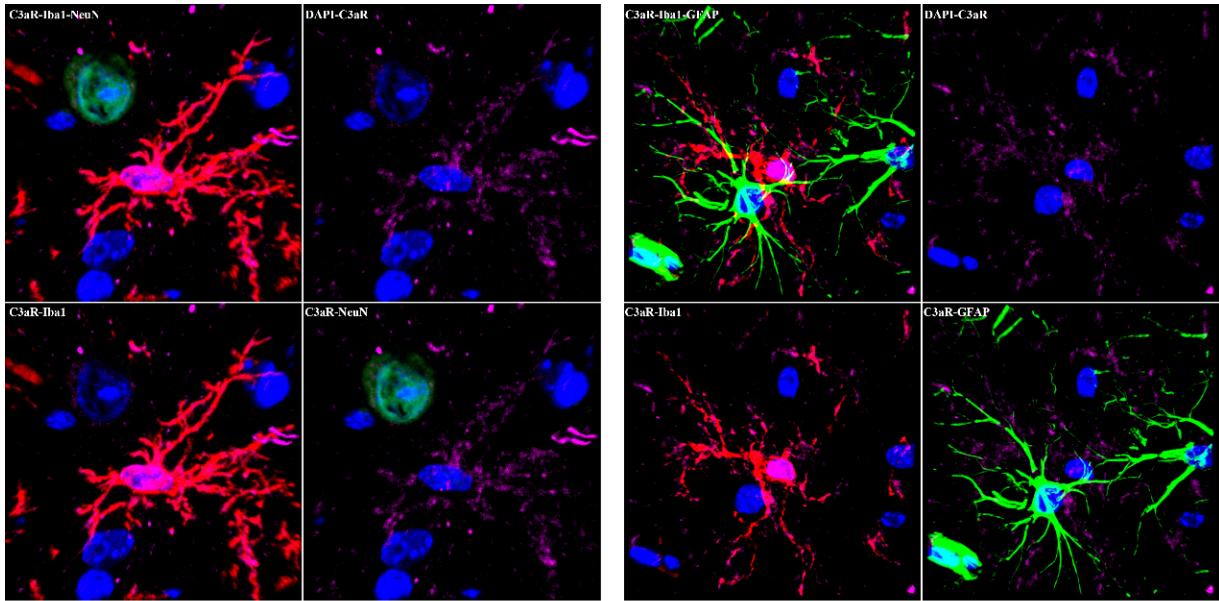


Figure S1 C3aR is highly expressed in microglia, lowly expressed in neuron, but not expressed in astrocyte