| Primary Antibody                                      | Company and Cat #          | Stock Concentration | Concentration | Target                      |
|------------------------------------------------------|----------------------------|---------------------|---------------|-----------------------------|
| Anti-calbindin (CB)                                   | Synaptic Systems 214 005   | 1 mg/mL             | 1:100         | Calcium binding protein     |
| Anti-calretinin (CR)                                  | Sigma C7479                | 0.8 mg/mL           | 1:50          | Calcium binding protein     |
| Anti-tyrosine hydroxylase (TH)                        | EMD Millipore MAB318-AF488 | 0.5 mg/mL           | 1:100         | Enzyme                      |
| Anti-choline acetyltransferase (ChAT)                 | EMD Millipore AB144P       | 0.5 mg/mL           | 1:100         | Enzyme                      |
| Anti-synaptophysin (Syn) (Alexa Fluor-594)            | Abcam ab206868             | 0.5 mg/mL           | 1:50          | Presynaptic protein         |
| Anti-synaptophysin (Syn) (Alexa Fluor-488)            | Abcam ab196379             | 0.5 mg/mL           | 1:50          | Presynaptic protein         |
| Anti-Homer 1                                          | Synaptic Systems 160 003   | 1 mg/mL             | 1:50          | Postsynaptic protein        |
| Anti-NeuN                                             | Abcam ab190195             | 0.5 mg/mL           | 1:50          | Neuronal marker             |
| Anti-GFP                                              | ThermoFisher G10362        | 0.2 mg/mL           | 1:50          | Marker protein               |

| Secondary Antibody                                    | Company and Cat #       | Stock Concentration | Concentration |
|-------------------------------------------------------|-------------------------|---------------------|---------------|
| Alexa Fluor 594 F(ab')2 fragment donkey anti-rabbit    | Jackson ImmunoResearch 711-586-152 | 1.5 mg/mL   | 1:100         |
| DyLight 594 donkey anti-goat                           | Abcam ab96937           | 0.5 mg/mL           | 1:100         |
| DyLight 405 goat anti-guinea pig F(ab')2 fragment specific | Jackson ImmunoResearch 106475-006 | 1.5 mg/mL   | 1:25          |
| HRP Donkey anti-rabbit                                 | Abcam ab205722          | 2 mg/mL             | 1:50          |