



### **Immunofluorescence Staining of Free Floating Brain Sections**

Day 1.

- 1) Wash sections 4X with gentle rocking/agitation at 4°C, 5 min each in ice-cold 0.1 M PB (0.1M Na Phosphate pH 7.4).
- 2) Block sections in vehicle (10% normal goat serum in 0.1 M PB+ 0.3% Triton X-100) for 1 h with gentle rocking/agitation at 4°C
- 3) Incubate sections in NeuroMab diluted in ice-cold vehicle. Dilution factors for NeuroMabs should be determined empirically, but generally NeuroMab tissue culture supernatants should be used at 1:2-1:10, purified NeuroMab IgG from 1-20 µg/ml. Incubate sections overnight at 4°C with gentle rocking/agitation.

Day 2.

- 4) Wash sections 4X with gentle rocking/agitation at 4°C, 5 min each in ice-cold vehicle.
- 5) Incubate sections for 1 h with gentle rocking/agitation at 4°C in appropriate fluorescent goat anti-mouse secondary antibody. We typically use Alexa Fluor conjugated goat anti-mouse isotype specific (i.e., anti-IgG1, IgG2a or IgG2b) secondary antibodies, which have a higher signal and lower background than anti-IgG secondary antibodies.

From this step on the sections should be protected from room light.

- 6) Wash sections with gentle rocking/agitation at 4°C, 5 min in vehicle.
- 7) Wash sections with gentle rocking/agitation at 4°C, 5 min in 0.1 M PB.
- 8) Wash sections with gentle rocking/agitation at 4°C, 5 min in 0.05 M PB.
- 9) Mount on gelatin-coated microscope slides (floating in 0.05 M PB in a 15 ml Petri dish).
- 10) Air dry
- 11) Put 15 µl mounting media (e.g., Prolong Gold antifade reagent, Invitrogen P36930) on each section and coverslip.
- 12) Seal with nail polish.