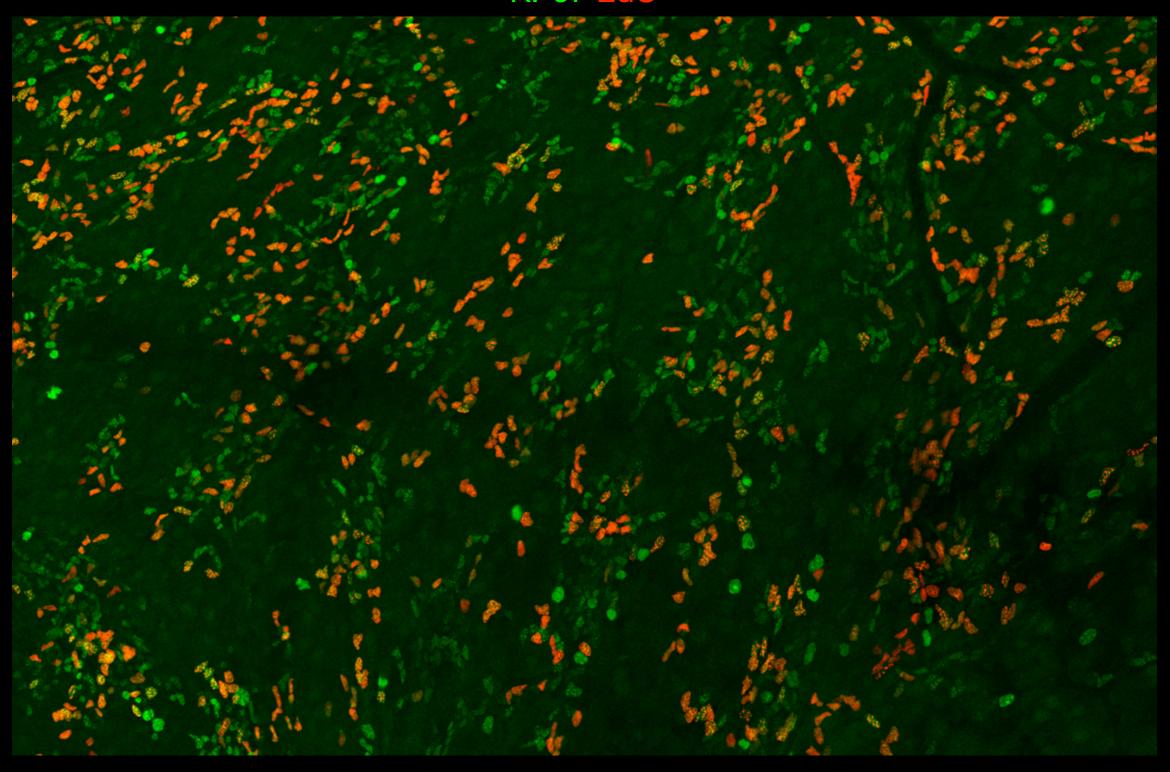
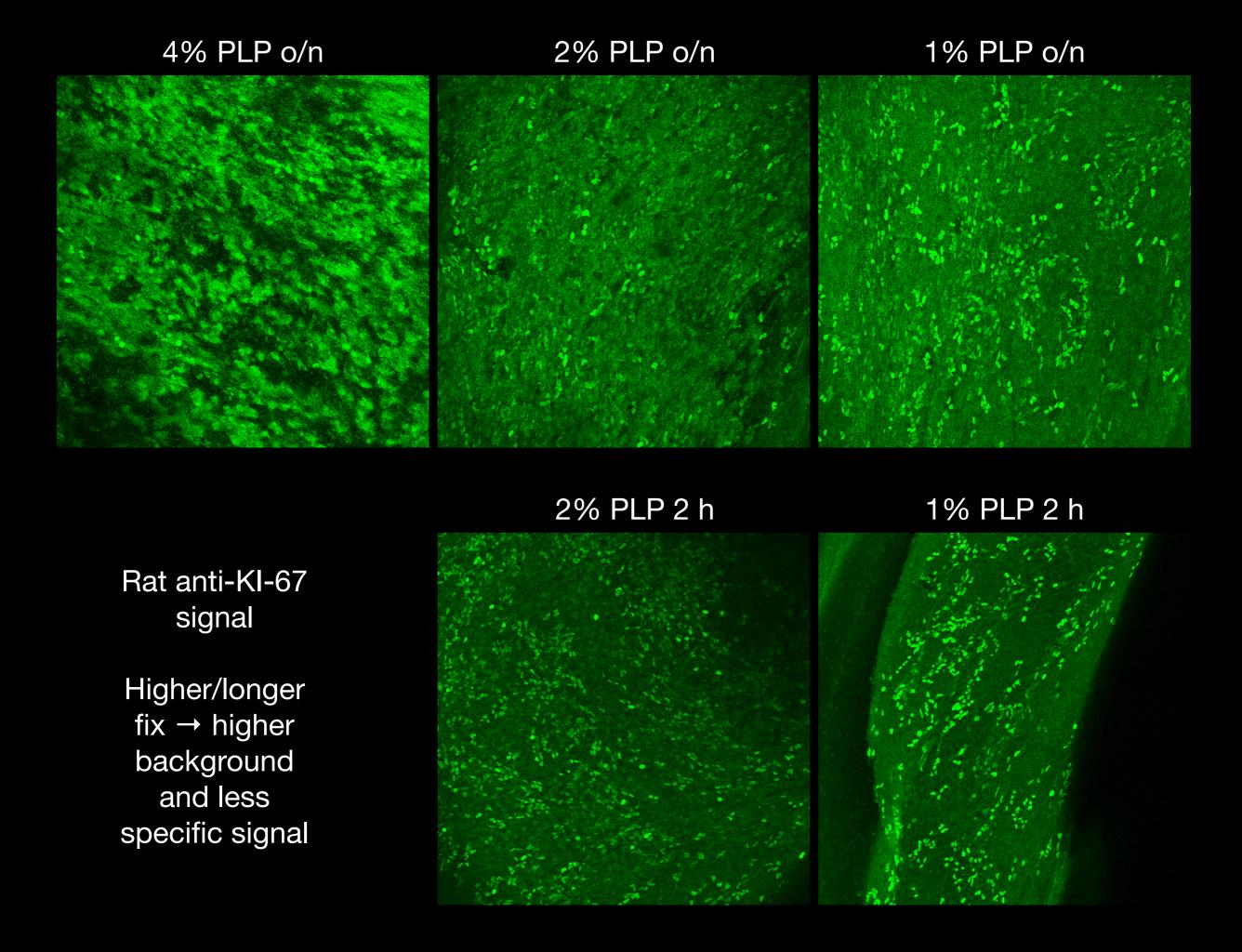
- Whole mount immunofluorescence
- Brains from mice perfused with 2% PLP fixative made with fresh formaldehyde dissolved from paraformaldehyde powder

Rat anti-KI-67 monoclonal antibody test 50 mg/kg EdU 40 min chase KI-67 EdU



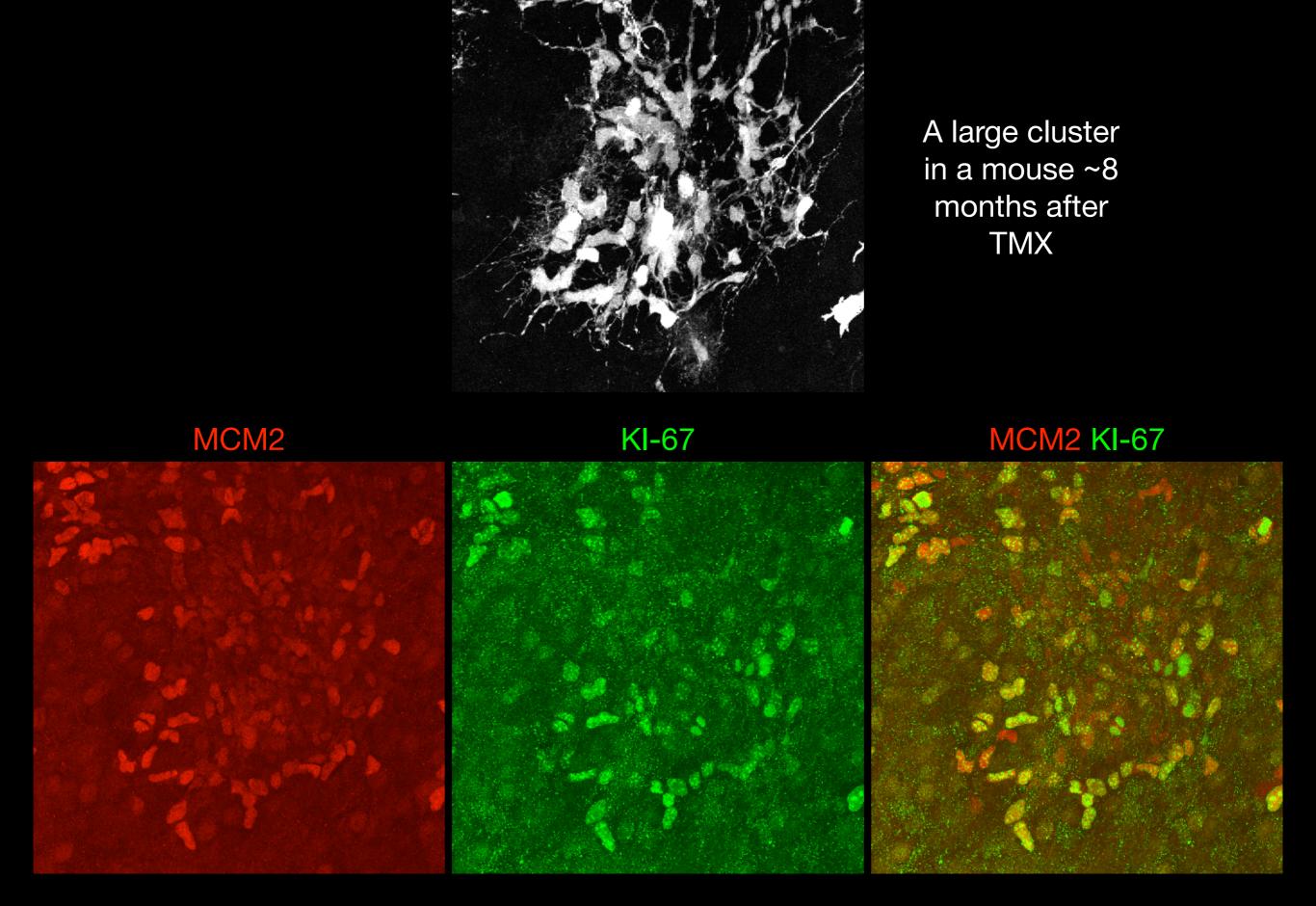
- Good signal
- · Immunostaining worked fine, reproducibly, every time

- Also tried stabilized formaldehyde from EM Sciences
- Has methanol and other chemicals added
- Different fixation quality of the brains
- Less good immunostaining than fresh formaldehyde
- Needed optimization again



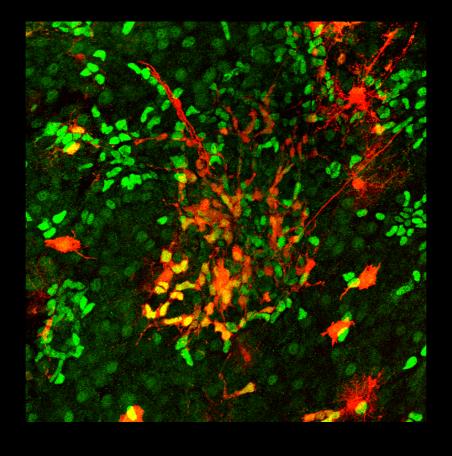
- In short, better signal with less fixation
- But the tissue probably not stable over long-term with less fixation, although I didn't test this

· Once optimized, immunostaining worked well again



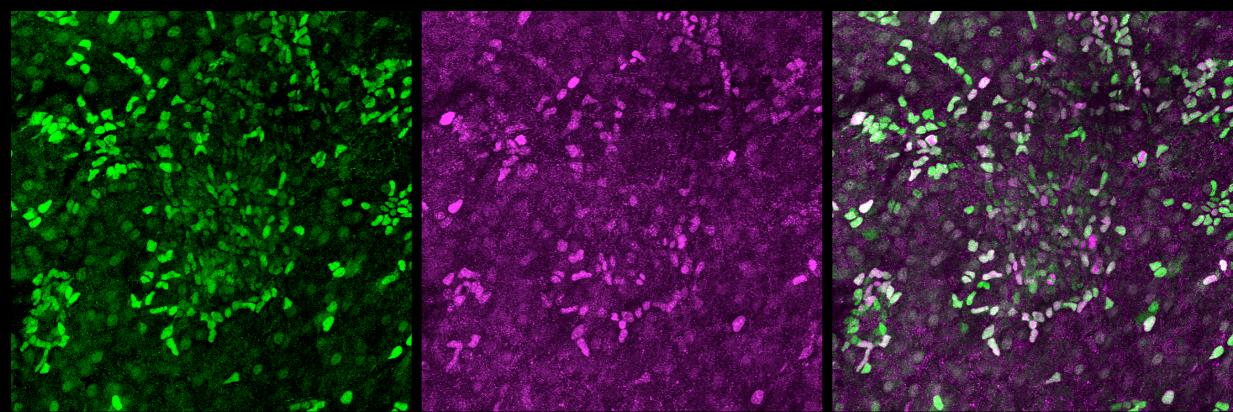
RFP

RFP MCM2



A large cluster in mouse ~8 months after TMX

MCM2 KI-67 MCM2 KI-67



- As for the formaldehyde, in the end, I switched back to using fresh formaldehyde dissolved from powder
- 2% PLP made with fresh formaldehyde from powder
- Overnight fix with the 2% PLP worked fine, reproducibly
- What I use now for every whole mount immunostaining