

SHIELD



Exceptional Protection of Fluorescent Proteins and Endogenous Molecular Information



THE SOLUTION:

Versatile: Safeguards endogenous fluorescence, protein antigenicity, nucleic acids, and overall tissue architecture. Synergizes with a range of existing tissue processing approaches including SWITCH (CELL, 2015) and MAP (NBT, 2016).

Easy & Reliable: Superior tissue preservation vs. CLARITY, without the variability of hydrogel embedding. Compatible with both non-fixed and PFA-fixed tissues.

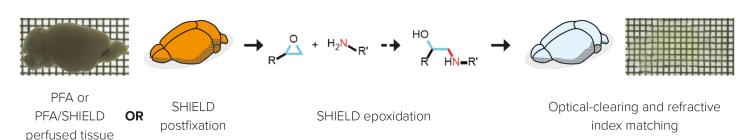
Fast: Streamlined protocol preserves samples in a matter of days with minimal steps.

Multi-round imaging & staining: Protects tissue during FP-imaging and antibody labeling across multiple individual rounds.

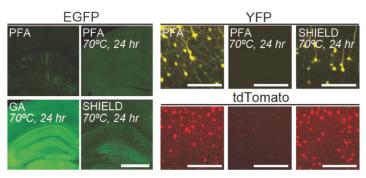
Available in 250mL and 500mL kits:

Each kit comes with enough SHIELD Epoxy, SHIELD Buffer, and SHIELD ON solution to preserve 8 (250 mL kit) or 16 (500 mL kit) mouse brains or samples of similar size.

SHIELD WORKFLOW: EFFECTIVE FOR BOTH UN-FIXED AND FIXED TISSUES

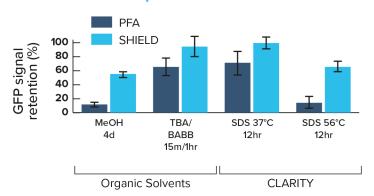


Superior preservation of the most popular FPs

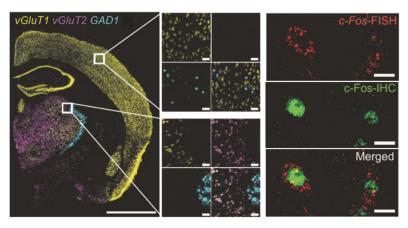


Images & data from Park et al. 2018, Nature Biotech.

Improves signal in both CLARITY & organic solvent processed tissues

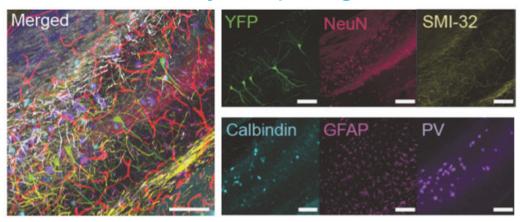


Enables robust fluorescence in situ hybridization & immunohistochemistry



Images & data from Park et al. 2018, Nature Biotech.

Facilitates antibody multiplexing across rounds



Images & data from Park et al. 2018, Nature Biotech.

Guiding Through **Every Step** of the Sample's Journey

TISSUE PRESERVATION



SHIELD

Experimental design support for tissue preservation ensuring maximum protection of FP and biomolecular information

ACTIVE 3D CLEARING



SMARTCLEAR II PRO

Batch clearing with maximum preservation of FP and protection of tissue sample

ACTIVE 3D LABELING



SMARTLABEL

Rapid immunostaining with unparalleled uniformity



