

Antifade 1"×3" transparent microscope slide for in-depth high/super-resolution tissue imaging

- Solid & solvent-free
- Excellent signal-to-noise ratio
- Low spherical aberration

INTRODUCTION

The antifade **Solid-SuperR®** kidney slide features a fluorescently labeled mouse renal specimen polymerized and embedded in the high-refractive-index polymer ($n=1.53$; thickness: 350 ± 50 μm). The high- n polymer facilitates photon penetration in 3D microscopy while the solvent-free condition minimizes photobleaching caused by O_2 -fluorophore contacts and reactions. Because of the unique stability, the **Solid-SuperR®** kidney polymer slide is recommended for demonstration of 3D high/super-resolution imaging in the microscope center or imaging core. It can also serve as a teaching tool or positive control for routine confocal or fluorescence microscopy.

Labeling specifics:

- DAPI labeling of nuclei (excitation peak: 350 nm; emission peak: 465 nm).
- WGA-AF555: cardiac perfusion labeling of wheat germ agglutinin (WGA) -Alexa Fluor® 555 conjugates (excitation peak: 555 nm; emission peak: 565 nm); target: renal vessels (e.g., glomerulus capillaries) and basement membrane (WGA-AF555 across the capillaries).
- TUJ1-AF647: nerve fibers and bundles labeled with anti-tubulin beta 3 (TUBB3, clone TUJ1) - Alexa Fluor® 647 conjugates (excitation peak: 650 nm; emission peak: 665 nm).

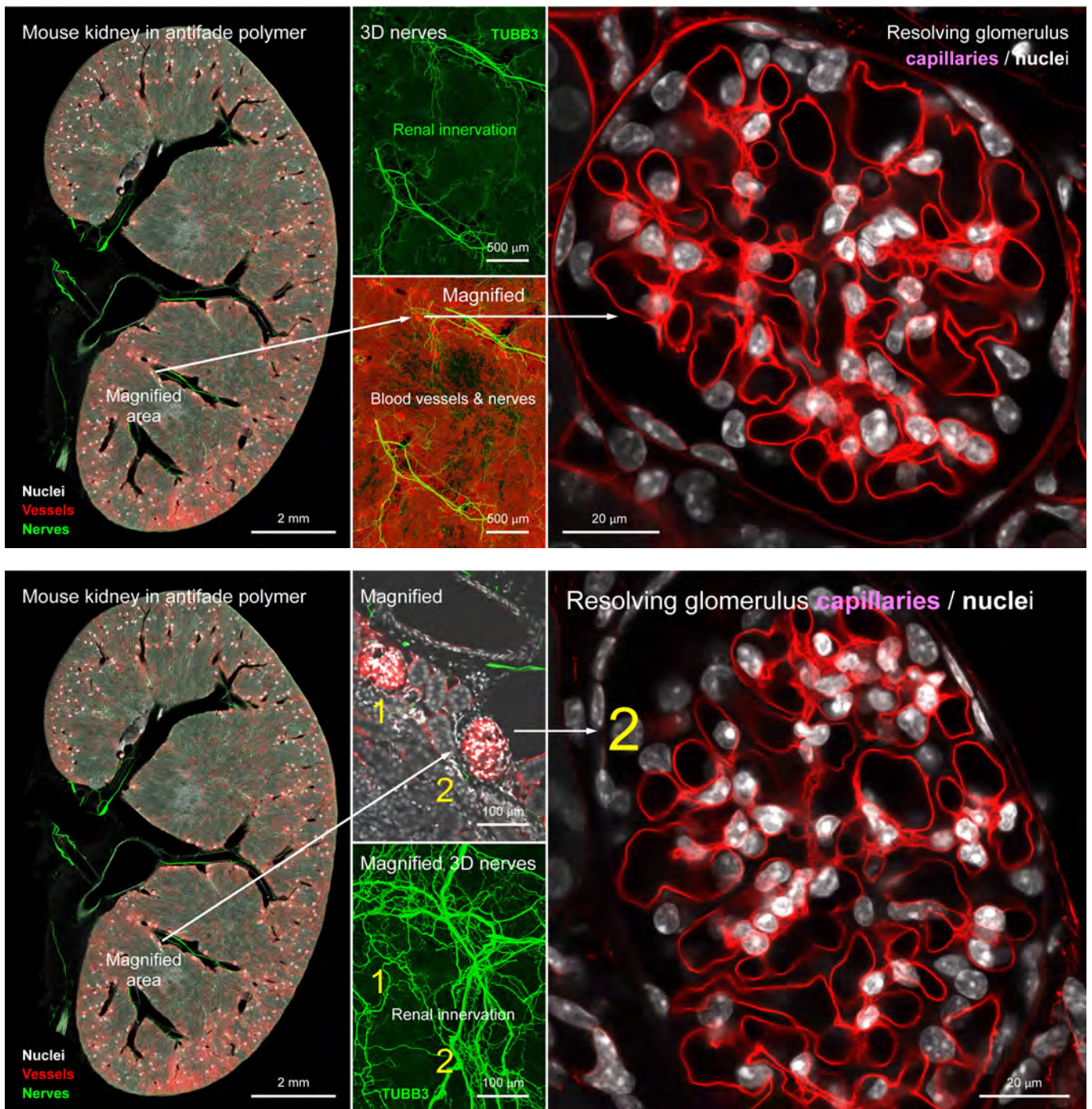
Shipping and storage:

- Room temperature in the provided container.

▲ Critical operation note:

1. The high- n polymer under the coverslip absorbs water (**CAUTION!** avoid prolonged direct water contact at the edge). Never use a slide if the glass is broken after water exposure.
2. Waste or broken slides must be bagged, labeled for, and disposed of via the chemical waste program.
3. The slide consists of a kidney vibratome section embedded in polymer. Dead space between the coverslip and tissue surface (slightly uneven) is normal.

Most SunJin Lab's products and product applications are covered by international patents.



Panoramic-to-3D/super-resolution imaging of mouse kidney. Capillaries (red) and nuclei (white) of a glomerulus are closely associated. The two tissue components are excellent targets to demonstrate the resolving power of a 3D imaging approach (due to their close proximity). Hundreds of glomeruli are available in each **Solid-SuperR®** slide for magnification.

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