

# BEYOND CLEARING, LABELING & IMAGING

## DeepLabel™ Antibody Staining Kit

DeepLabel™ Antibody Staining Kit is a set of non-toxic, ready-to-use reagents optimized for use with clarified tissues. With DeepLabel™, macromolecular probes can rapidly and efficiently penetrate thick, protein-dense tissues for site-specific binding at lower antibody concentrations. DeepLabel™ facilitates homogenous antibody staining with 2.6 X greater signal-to-background than conventional staining methods. Use DeepLabel™ for vibrant fluorescence imaging at subcellular resolution. DeepLabel™ is compatible with virtually all antibodies and all cleared tissues.

### FEATURES

- Rapid and efficient antibody penetration
- Enhanced site-specific binding
- Lower concentrations of antibodies required
- Simple protocol with ready-to-use reagents
- Multiple rounds of multiplexed antibody labeling

### 3 EASY STEPS

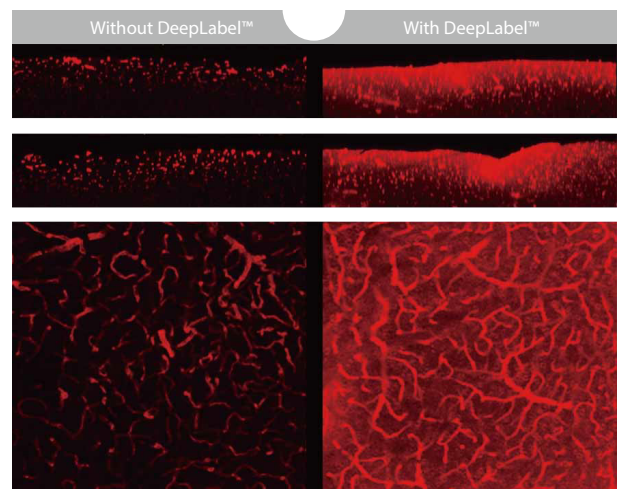


! Tissues cleared with the X-CLARITY™ Systems and Reagents for Tissue Clearing and labeled using the DeepLabel™ Antibody Staining Kit can be imaged with:

Light sheet microscopy

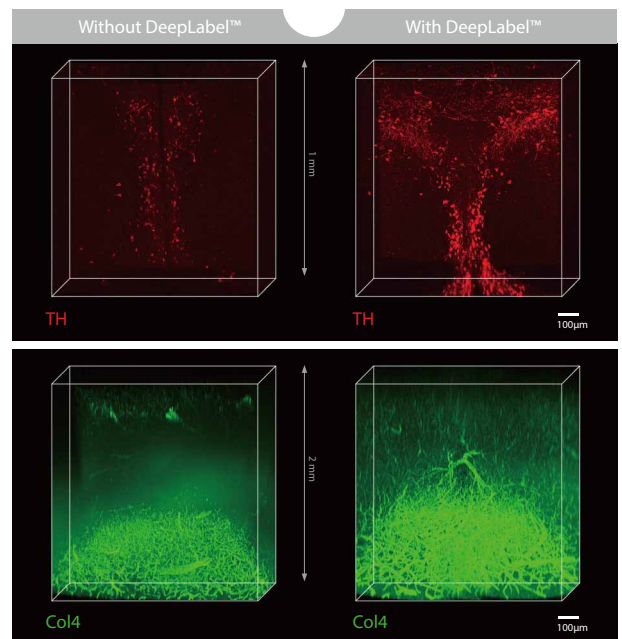
Two-photon microscopy

Confocal microscopy



DeepLabel™ enhances anti-Collegen IV penetration into clarified mouse brain tissues.

### DEEPLABEL™ enhances antibody diffusion into cleared tissues.



Comparison of antibody staining efficiency with or without DeepLabel™. DeepLabel™ Antibody Staining Kit enhances antibody penetration and site-specific binding in thick, cleared tissues for robust and efficient labeling. Mouse brains labeled with DeepLabel™ had markedly better antibody distribution and low background for excellent signal-to-noise ratio.



## OPTIMIZED FOR CLEARED TISSUES



### DeepLabel™ Solution A C33002

For the permeabilization of clarified tissues to enable the rapid and deep diffusion of macromolecular probes. Non-toxic.

### DeepLabel™ Solution B C33003

For the enhancement of antibody binding for multiple rounds of multiplexed antibody labeling. Non-toxic.

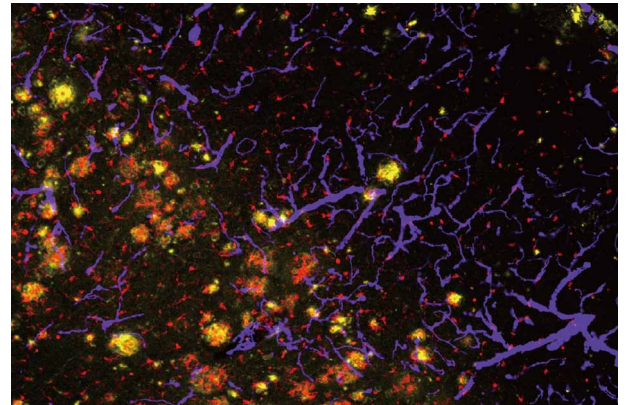
### DeepLabel™ Washing Buffer C33004

For washing to remove unbound antibodies and reduce background, thereby increasing signal-to-noise ratio. Non-toxic.

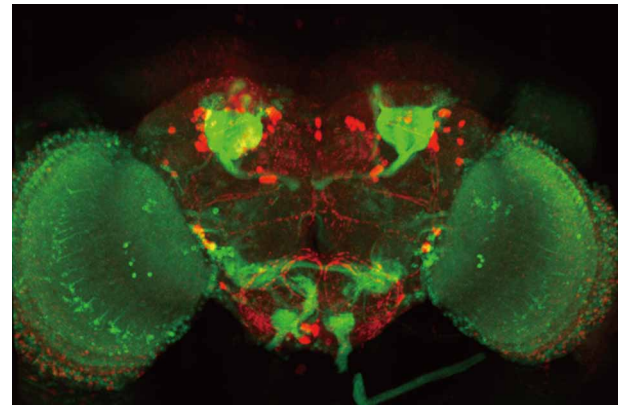
### X-CLARITY™ Mounting Solution C13101

For the refractive index matching of clarified tissues for optimal imaging. RI = 1.460 at 25°C and is stable over a wide temperature range. Reduces photobleaching and preserves fluorescence signals. Non-toxic.

## FLUORESCENCE 3D IMAGING



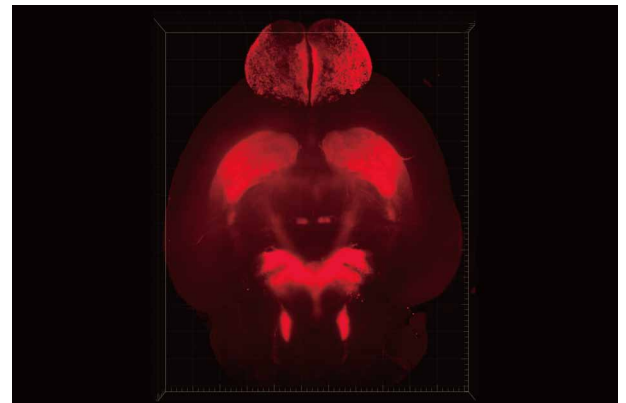
Adult mouse brain stained using DeepLabel™ with anti-β-Amyloid (yellow), anti-Iba1 (red), and anti-SMA (purple).



Whole adult *Drosophila* brain stained using DeepLabel™ with anti-GFP (green) and anti-TH (red).

## ORDERING INFORMATION

Cat #	Product	Qty
	DeepLabel™ Antibody Staining Kit	1 kit
	DeepLabel™ Solution A	1 x 25 mL
C33001	DeepLabel™ Solution B	2 x 25 mL
	DeepLabel™ Washing Buffer	1 x 250 mL
	X-CLARITY™ Mounting Solution	1 x 25 mL
C13101	X-CLARITY™ Mounting Solution	1 x 25 mL
C13102	X-CLARITY™ Mounting Solution Value Pack	10 x 25 mL
C13107	X-CLARITY™ Mounting Solution Bulk Pack	20 x 25 mL



Whole adult mouse brain stained using DeepLabel™ with anti-TH (red).



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VDL1810-01

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